Order No. MD0206148A1

A1

Service Manual

AV Control Receiver

Simplified

DOLBY DIGITAL

DIGITAL dts SURROUND

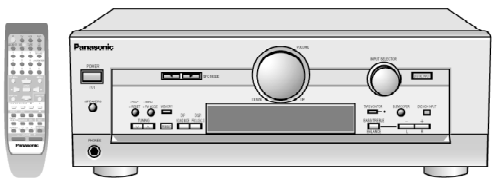
SA-HT390P

Color

(S) ... Silver Type

Please use this manual together with the service manual for Model No. [SA-HT400P/PC-K/S, Order No. MD0203058C1].

- Mentioned in this specification is only those different from Model No. SA-HT400P-S.



SPECIFICATIONS

Specification

■ **Amplifier Section**

Rated minimum sine wave RMS power output	
40 Hz-20 kHz both channels driven	
0.9% total harmonic distortion	**90 W per channel (6 Ω)**
1 kHz continuous power output both channels driven	
0.05% total harmonic distortion	**95 W per channel (6 Ω)**
Power output at 1 kHz each channel driven	
0.9% total harmonic distortion	
Front	**2 x 90 W (6 Ω)**
Center	**90 W (6 Ω)**
Surround	**2 x 90 W (6 Ω)**
Subwoofer (f=100 Hz)	**100 W (6 Ω)**
■ **System: SC-HT390(P)**	**Receiver: SA-HT390(P)**
	Satellite Speaker: SB-HT280(P)
	Subwoofer: SB-W280(P)

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Replacement Type Illustrations of ICs, Transistors & Diodes

Notes:

- Mentioned in this illustrations is only those different from Model No. SA-HT400P-S.

- With reference to original Service Manual on Page 15.

2. Replacement Block Diagram

Note: With reference to original Service Manual on Page 19 to 21.

3. Replacement Schematic Diagram

Note: With reference to original Service Manual on Page 24, 29, 31, 33, 34 and 35.

4. Change in Replacement Parts List

Notes:

- Mentioned in this parts list is only those different from Model No. SA-HT400P-S.

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc. are used.

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] indicates parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
6	RGPV0001K-S	FRONT PANEL	[M]
7	RGR0306T-C	REAR PANEL	[M]
33	XTB3+6G	SCREW	[M]
34	XTB3+20JFZ	SCREW	[M]
49	XTW3+20T	SCREW	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC901	C2BBGF000346	IC MICOM	[M]
		DIODE	
D904	MTZJ3R9ATA	DIODE	[M]
		RESISTOR	
R1234	ERJ3GEYJ122V	1.2K 1/16W	[M]
		CAPACITOR	
C366	ECA1CAK101XB	100 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG6131	PACKING CASE	[M]
P1	RPG6132	PACKING CASE	[M]
		ACCESSORIES	
A3	RQT6201-1P	O/I BOOK FOR REMOTE	[M]
A3	RQT6361-1P	O/I BOOK	[M]

/ Printed in Singapore / M020600001FLE/N/S

ORDER NO. MD0203058C1

A1

Service Manual

AV Control Receiver

*DOLBY DIGITAL

**DIGITAL dts SURROUND

SA-HT400P / SA-HT400PC

Color

(K) ... Black Type

(S) ... Silver Type

SPECIFICATIONS

■ **FM Tuner Section**

Frequency range	**87.9-107.9 MHz**
Sensitivity	**11.2 dBf (2 μ V, IHF'58)**
50 dB quieting sensitivity	
MONO	**18.3 dBf (4.5 μ V, IHF'58)**
STEREO	**38.3 dBf (45 μ V, IHF'58)**
Total harmonic distortion	
MONO	**0.2%**
STEREO	**0.3%**
S/N	
MONO	**73 dB**
STEREO	**67 dB**
Frequency response	**20 Hz -15 kHz, +1 dB, -2 dB**
Alternate channel selectivity	**65 dB**
Capture ratio	**1.5 dB**
Image rejection at 98 MHz	**40 dB**
Spurious response rejection at 98 MHz	**75 dB**
AM suppression	**50 dB**
Stereo separation	
1 kHz	**40 dB**
10 kHz	**30 dB**
Antenna terminal	**75 Ω (unbalanced)**

■ **AM Tuner Section**

Frequency range	**530-1710 kHz**
Sensitivity	**20 μ V, 330 μ V/m**
Selectivity	**55 dB**
IF rejection (at 1000 kHz)	**50 dB**

■ **Video Section**

Output voltage at 1 V input (unbalanced)	**1±0.1 Vp-p**
Maximum input voltage	**1.5 Vp-p**
Input/output impedance	**75 Ω**

■ **Amplifier Section**

Rated minimum sine wave RMS power output	
40 Hz-20 kHz both channels driven	
0.9% total harmonic distortion	**100 W per channel (6 Ω)**
1 kHz continuous power output both channels driven	
0.05% total harmonic distortion	**105 W per channel (6 Ω)**
Total harmonic distortion	
rated power at 40 Hz-20 kHz	**0.9% (6 Ω)**
half power at 1 kHz	**0.07% (6 Ω)**
Power output at 1 kHz each channel driven	
0.9% total harmonic distortion	
Front	**2 x 100 W (6 Ω)**
Center	**100 W (6 Ω)**
Surround	**2 x 100 W (6 Ω)**
Subwoofer (f=100 Hz)	**100 W (6 Ω)**
Low frequency damping factor	**30 (6 Ω)**
Load impedance	
Front	**6-8 Ω**

Front	**6-8 Ω**
Center	**6-8 Ω**
Surround	**6-8 Ω**
Subwoofer	**6-8 Ω**
Dynamic headroom	**2 dB (6 Ω)**
Frequency response	
CD, TAPE, DVD, TV, VCR	**10 Hz-70 kHz, ±3 dB**
Input sensitivity	
CD, TAPE, DVD, TV, VCR	**27 mV (200 mV, IHF'66)**
S/N (IHF A)	
CD, TAPE, DVD, TV, VCR	**75 dB (85 dB, IHF'66)**
Input impedance	
CD, TAPE, DVD, TV, VCR	**22 k Ω**
Tone controls	
BASS	**50 Hz, +10 to -10 dB**
TREBLE	**20 kHz, +10 to -10 dB**
Subwoofer frequency response (-6 dB)	**7-200 Hz**
■ General	
Power supply	**AC 120 V, 60 Hz**
Power consumption	**450 VA, 350 W**
Dimensions (W x H x D)	**430 x 158 x 370 mm (16-15/16" x 6-7/32" x 14-19/32")**
Mass	**10.5 kg (23.1 lb.)**
Power consumption in standby mode :	**1 W**
■ System: SC-HT400(P)	**Receiver: SA-HT400(P)** **Satellite Speaker: SB-HT280(P)** **Subwoofer: SB-W280(P)**
■ System: SC-HT400(PC)	**Receiver: SA-HT400(PC)** **Satellite Speaker: SB-HT280(P)** **Subwoofer: SB-W280(P)**

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

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**** Manufactured under license from Digital Theater System. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater System.**

Panasonic

1. Safety Precaution

(This "Safety Precaution" is applied only in U.S.A.)

1. **Before servicing, unplug the power cord to prevent an electric shock.**
2. **When replacing parts, use only manufacturer's recommended components for safety.**
3. **Check the condition of the power cord. Replace if wear or damage is evident.**
4. **After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.**
5. **Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.**

- Insulation Resistance Test

1. **Unplug the power cord and short the two prongs of the plug with a jumper wire.**
2. **Turn on the power switch.**
3. **Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screw heads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3M Ω and 5.2M Ω to all exposed parts*. (Fig 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig 2)**
   ***Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.**
4. **If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.**

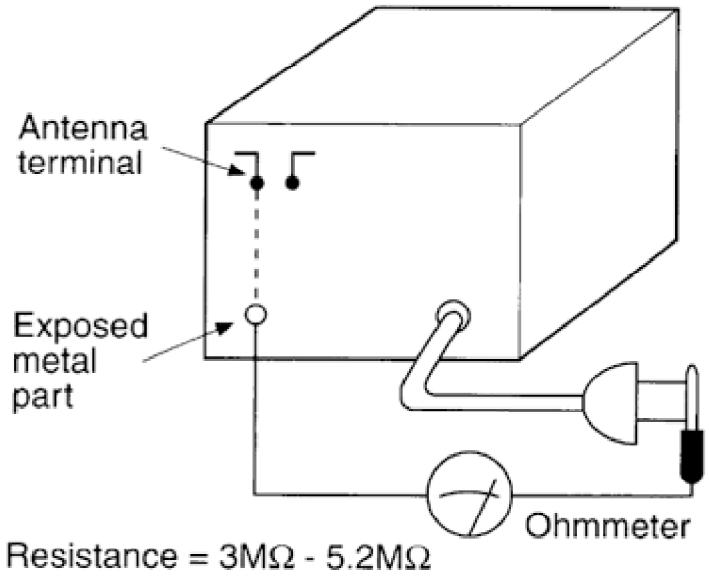


Fig. 1

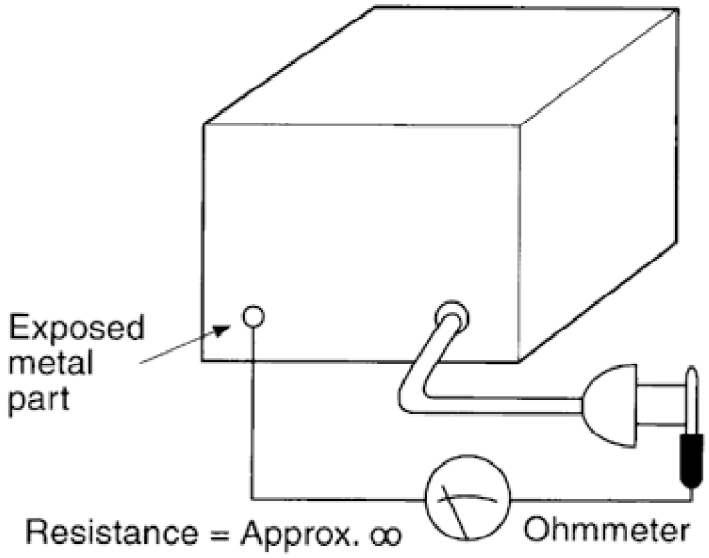


Fig. 2

2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C703 - C706, C901, C904 and C1702 through a 10 Ω, 5 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid over current. Current consumption at AC 120 V, 60 Hz in NO SIGNAL mode should be 400~1200 mA.

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.

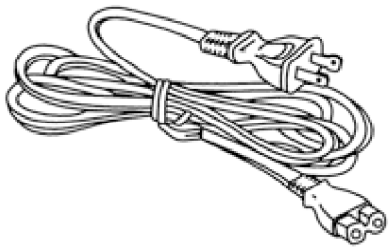
2. Determine the cause of the problem and correct it.

3. Turn on the power once again after one minute.

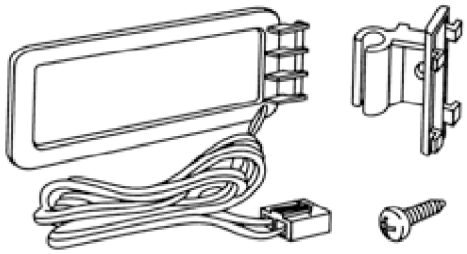
Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4. Accessories

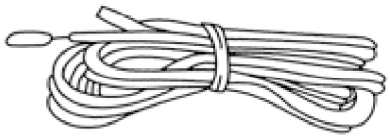
AC power supply cord... 1 pc.



AM Loop Antenna Set / ... 1 set.



FM Indoor Antenna... 1 pc.



Remote Control / Transmitter... 1 pc.

5. Front Panel Controls

Band select/FM mode select button [-BAND, –FM MODE]
For switching between AM and FM.
If reception is poor in FM, press and hold until "MONO" appears to switch to monaural mode.

Help/reset button [-HELP, –RESET]
Press if an error message appears. A message offering a possible solution scrolls across the display.
To reinitiate the unit's settings, press and hold until "RESET" appears.

Standby/on button [POWER, ⏻/I]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

Speaker on/off button [SPEAKERS]
Turning the speakers off automatically engages the STEREO mode (when listening through headphones, for example).

Headphone jack [PHONES]
Plug type: 6.3 mm (1/4") stereo
Avoid listening for prolonged periods of time to prevent hearing damage.

Tuning buttons [TUNING, ∨, ∧]
For tuning the radio and selecting preset stations.
Press and hold until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.
Tuning intervals: FM–0.2 MHz, AM–10 kHz

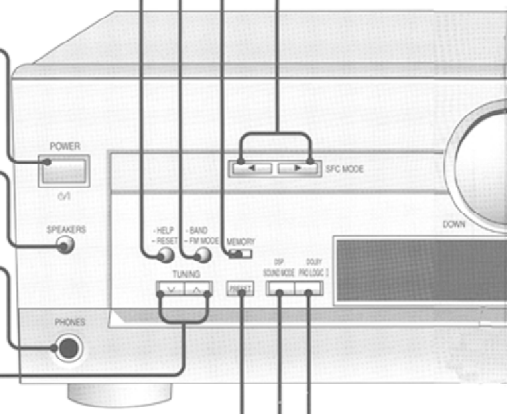
Preset channel button [PRESET]
Press to allow preset station selection with [TUNING, ∨, ∧].

DSP sound mode select button [DSP SOUND MODE]
For selecting "STEREO", "SURROUND" or "SFC"

Dolby Pro Logic Ⅱ mode select button [DOLBY PRO LOGIC Ⅱ]
Use when "DD PRO LOGIC Ⅱ" lights in the SURROUND mode.

Memory button [MEMORY]
For presetting radio stations.

SFC mode select buttons [SFC MODE, ◀, ▶]
For selecting the SFC mode



Volume control [VOLUME]

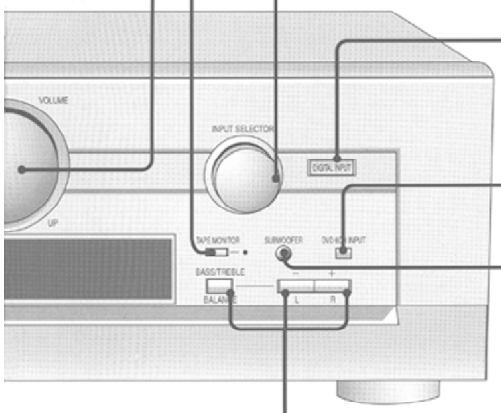
Tape monitor button/indicator [TAPE MONITOR]
For monitoring sound when recording to a 3-head cassette deck.
Also used when you have connected a graphic equalizer to the TAPE terminals.

Input selector [INPUT SELECTOR]

Digital/analog input select button/indicator [DIGITAL INPUT]
For switching between analog and digital input when you have selected TV, CD, or DVD. The button lights when digital is selected.

DVD 6ch/2ch input select button [DVD 6CH INPUT]
For switching between 6-channel and 2-channel DVD input.

Subwoofer level button [SUBWOOFER]
Adjust the level in 5 steps
SW MIN, SW 5, SW 10, SW 15, and SW MAX.
Select SW --- to stop output.

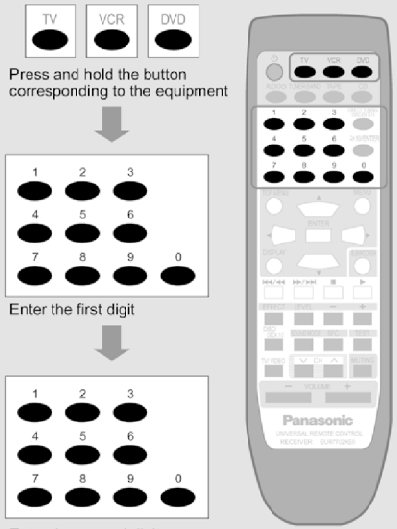


Tone/balance adjust buttons [BASS/TREBLE, BALANCE, –, +, L, R]
For adjusting the tone and balance.
First select BASS, TREBLE, or BALANCE, then press [–, L] or [+, R] to adjust.

⑧ CODES

This remote control can operate Panasonic and Technics audiovisual equipment that have remote control sensors. You may need to change the remote control code.
It can also operate some other brands of televisions, video cassette players, and DVD players. Check the table for the brand and enter the code as follows.

Changing the codes



The remote control outputs the on/off signal.
If the code is correct, the equipment turns on or off.
If it doesn't, try entering another code.

- Note that this remote control cannot operate some equipment and that it may not be able to perform some operations.
- Reenter the codes after you change the batteries.

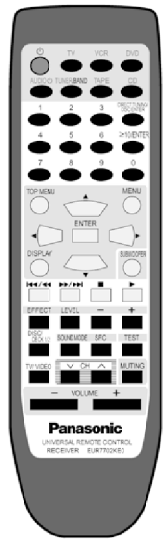
Code table

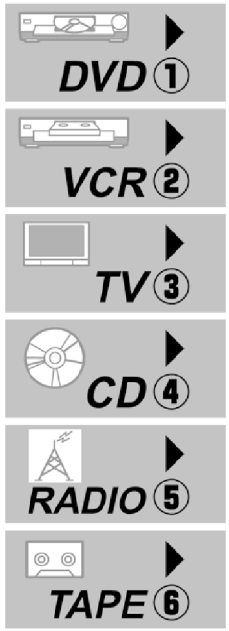
	TV	VCR	DVD
Panasonic	01,02,26	01,02,09,33	01
Denon	–	–	01,17
Ferguson	–	–	02
Fisher	14	13,14,15 18,34	–
Funai	–	08,30	–
G.E	02,03,07,09	02,03,11	–
GoldStar	07,15	27	–
Hitachi	05,07	09,10,11	11
JVC	12	19,25,31 38,39,40	09
Kenwood	–	–	15
LXI	03,06,07 10,14,15	10,13,14 15,18,27,30	–
Magnavox	06,07,11 15,22	02,09,12	–
Mitsubishi	07,15,16,21	21,22,28,29	06
NEC	07,15	19,25,31,38	–
Nordmende	–	–	02
Philco	06,07	02,09,12,30	–
Philips	06	02,09,12	04,16
Pioneer	02,10,19	09	03
Quasar	02	01,02,09,33	–
Raite	–	–	13
RCA	03,07,09 13,23,24,25	02,03,04 09,10,11 12,23,24,26	02
Saba	–	–	02
Sampo	–	–	14
Samsung	–	–	10
Sanyo	14	14,18,34	–
Sharp	08,21	16,17	08
Shintom	–	32	–
Sony	04	05,06,07 35,36,37	05
Sylvania	06,07,15	02,09,12,30	–
Symphonic	17	30	–
Thomson	–	–	02
Toshiba	10,21	23,24	04
Yamaha	–	–	01
Zenith	18,20	20	07,12

Panasonic

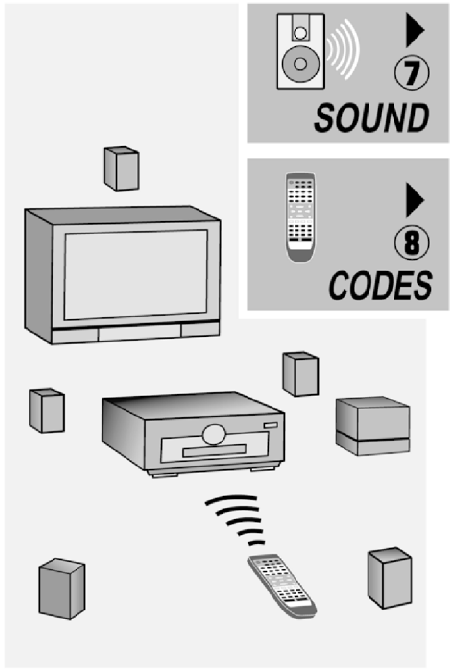
Remote Control Operation Guide

Model No. **EUR7702KE0**



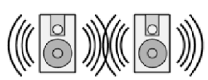


This remote control is the key to your home theater experience.
Actual operations depend on your equipment and software.
Be sure to read the instructions for the receiver and your other components.
You may need to enter a code to operate some equipment.
See over for details.



⑦ SOUND

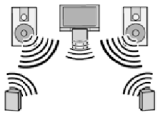
STEREO MODE



SOUND MODE

Select STEREO

SURROUND MODE



SOUND MODE

Select SURROUND

TEST → Start a test signal

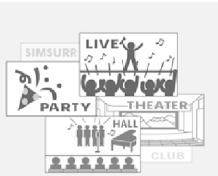
LEVEL → – → + → Select the speaker channel and adjust its output level

TEST → Stop the test signal

When you select Dolby Pro Logic Ⅱ MUSIC or PANORAMA

EFFECT → – → + → Change the sound effect

SFC MODE

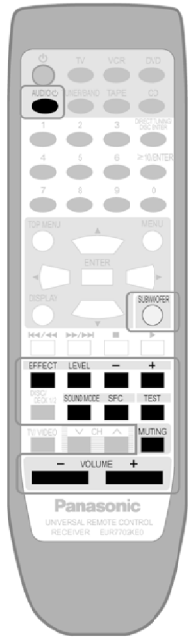


SFC

Select HALL, CLUB, LIVE, THEATER, SIM SURR or PARTY

LEVEL → – → + → Select the speaker channel and adjust its output level

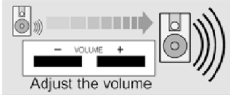
EFFECT → – → + → Change the delay time



Other functions

MUTING → Mute the volume

SUBWOOFER → Adjust subwoofer output level



VOLUME → Adjust the volume

AUDIO → Switch off the receiver and other components

③ TV

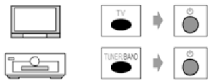
Watching TV

Switch on

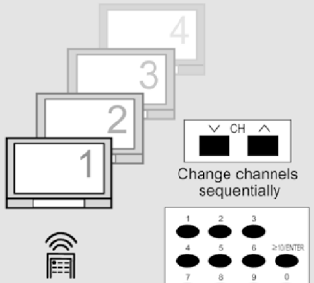
Switch on the receiver

Switch on the television and select input

Switch off



Operating the TV



Change channels sequentially

Select channels directly

④ CD

Listening to CDs

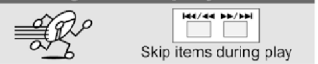
Switch on

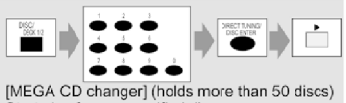
Switch on the receiver

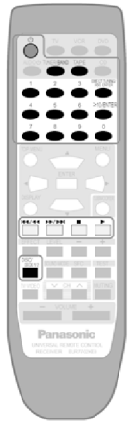
Switch on the player and start play

Switch off

Operating the CD player







⑤ RADIO

Listening to the radio

Switch on

Switch on the receiver Select FM or AM

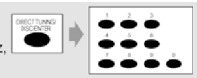
Switch off

Operating the radio

Change preset channels sequentially

Select preset channels directly
e.g Select 4 : [4]
Select 21 :
[≥10/ENTER] →[2] →[1]

Select radio stations by frequency
e.g Select 107.9 MHz,
[1] →[0] →[7] →[9]



⑥ TAPE

Listening to tapes

Switch on

Switch on the receiver

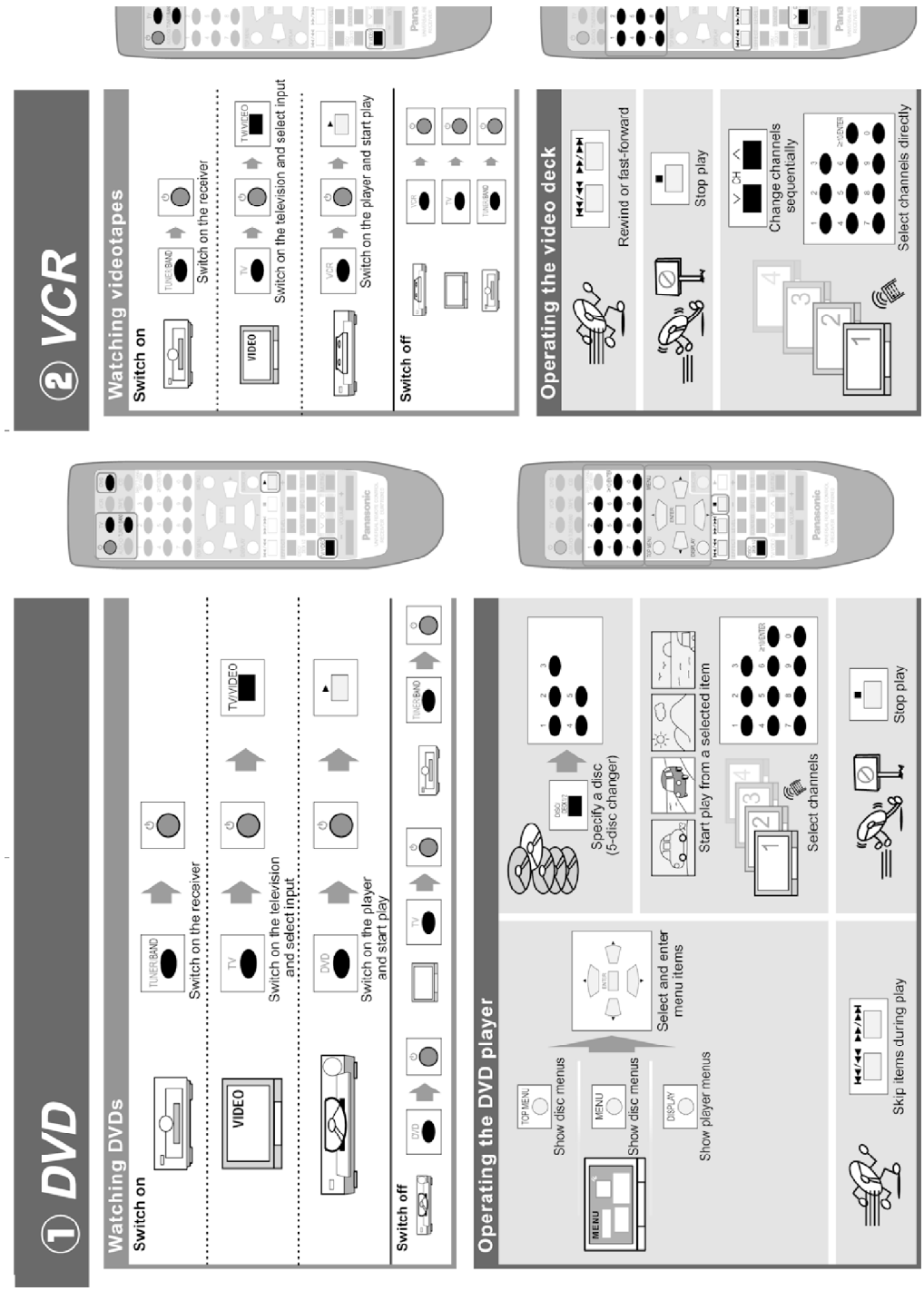
Switch on the deck and start play

Switch off

Operating the tape deck

Rewind or fast-forward Select DECK 1 or 2

Stop play



7. Disassembly and Main Component Replacement Procedures

“ATTENTION SERVICER”

Some chassis components maybe have sharp edges. Be careful when diassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

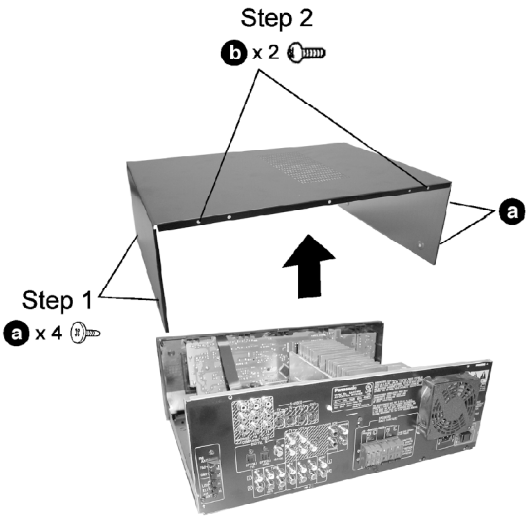
Content

- Disassembly Procedure for each major P.C.B. ..... P.g. 11

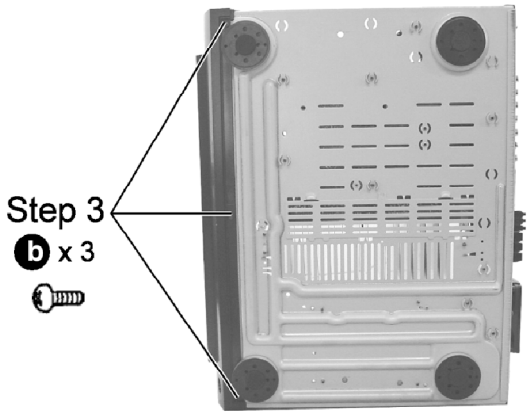
- Main Component Replacement Procedures

1. **Replacement of the Power IC and Regulator Transistor..... P.g. 13**
2. **Installation of the bottom cover after replacement..... ..... P.g. 14**

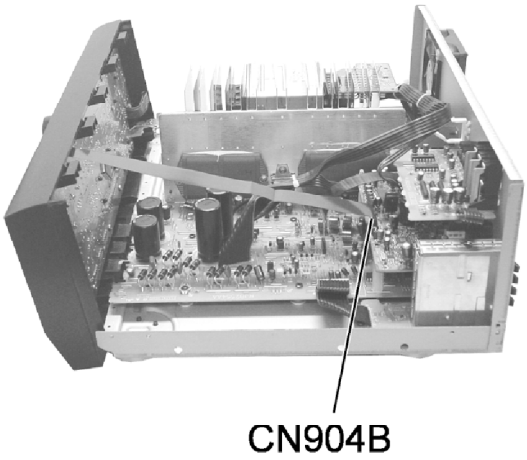
7.1. Disassembly Procedure for each major P.C.B.



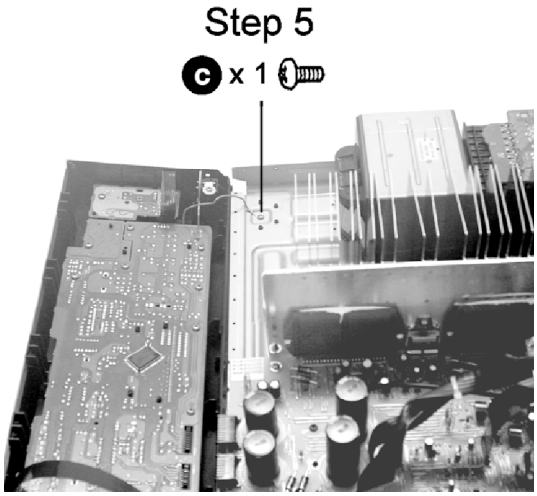
Step 1 & 2 Unscrew and remove top cabinet as shown.



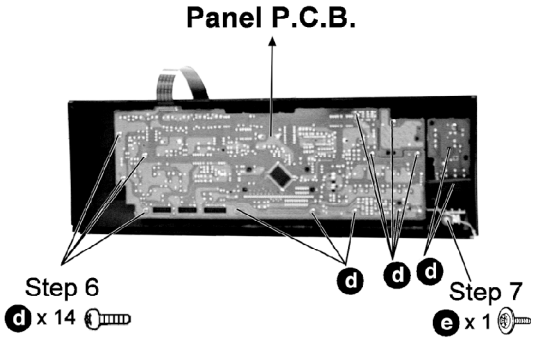
Step 3 Remove all the screws.



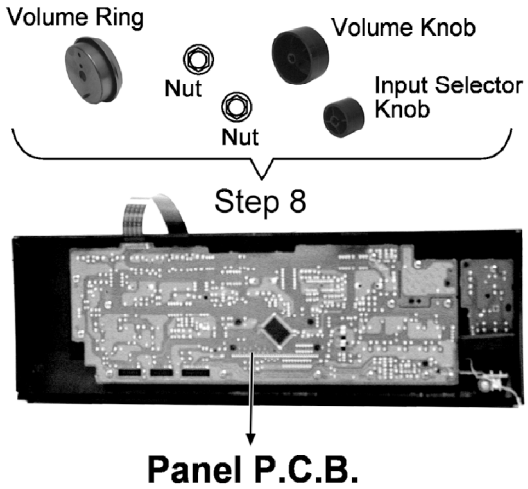
Step 4 Release the connector CN904B.



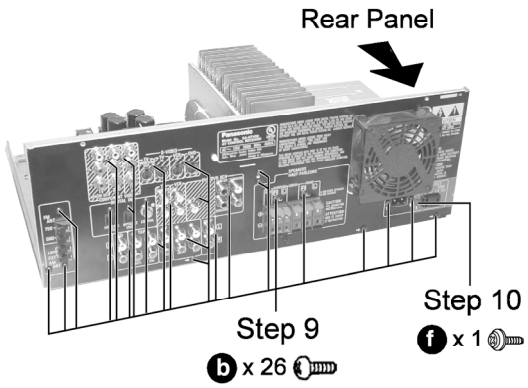
Step 5 Remove the screw.



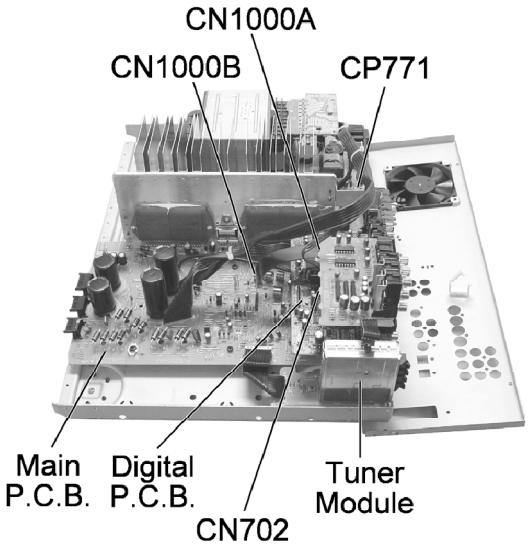
Step 6 & 7 Remove all the screws.



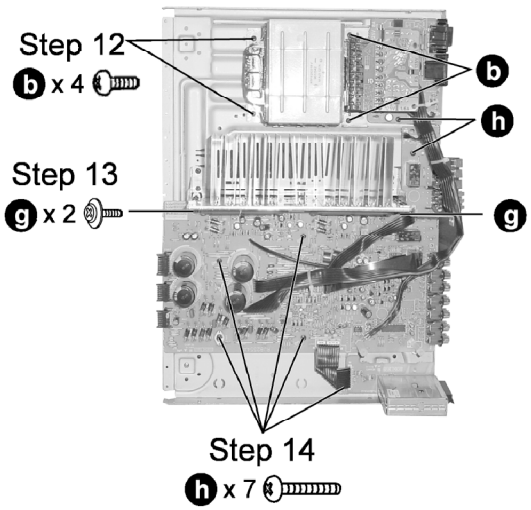
Step 8 Remove the Volume knob and Input Selector knob, unscrew the nuts and remove the Volume ring.



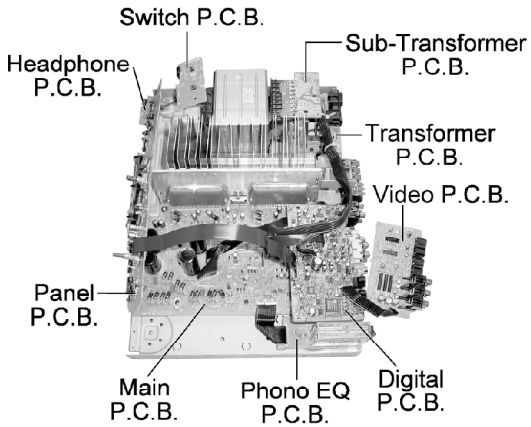
Step 9 & 10 Remove all the screws.



Step 11 Release the connectors CN702 and CN1000A. Pull up the Digital P.C.B. as shown.



Step 12, 13 & 14 Remove all the screws.

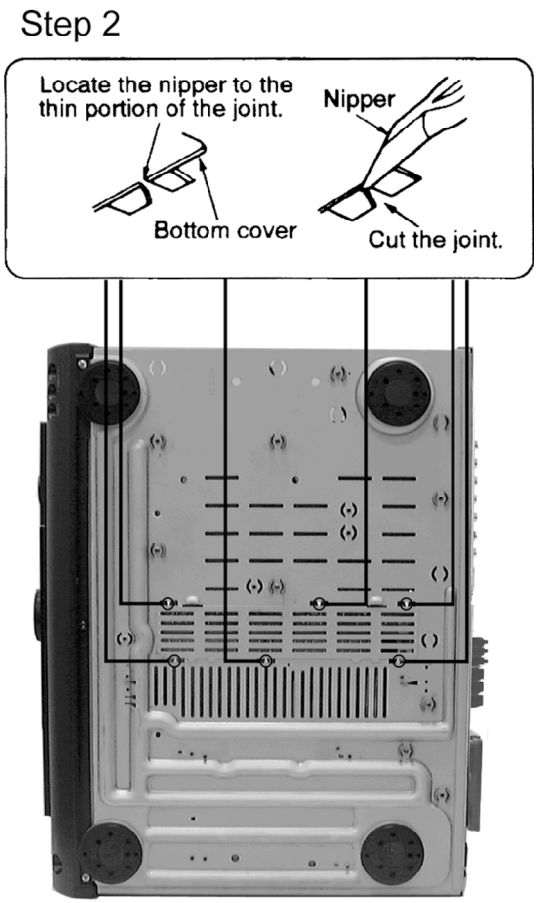


Reconnect all wires and connectors to test all P.C.B..

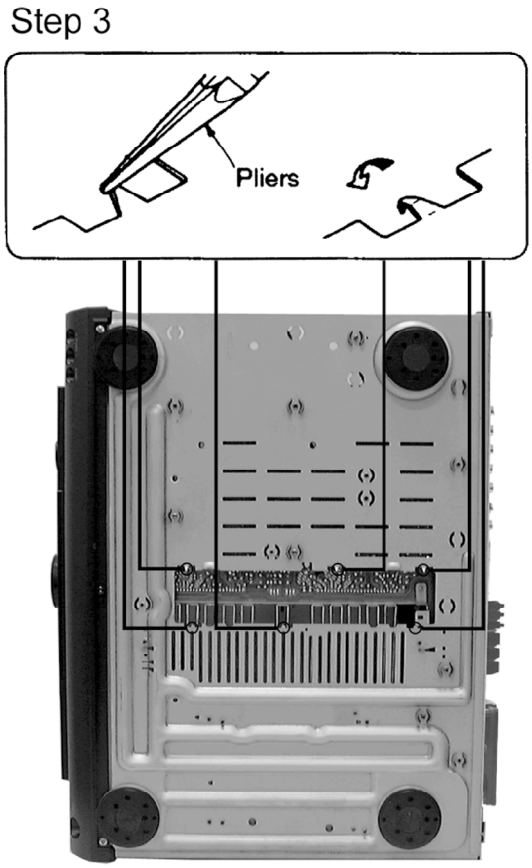
7.2. Main Component Replacement Procedures

7.2.1. Replacement of the Power IC and Regulator Transistor

Step 1 Remove the top cabinet.

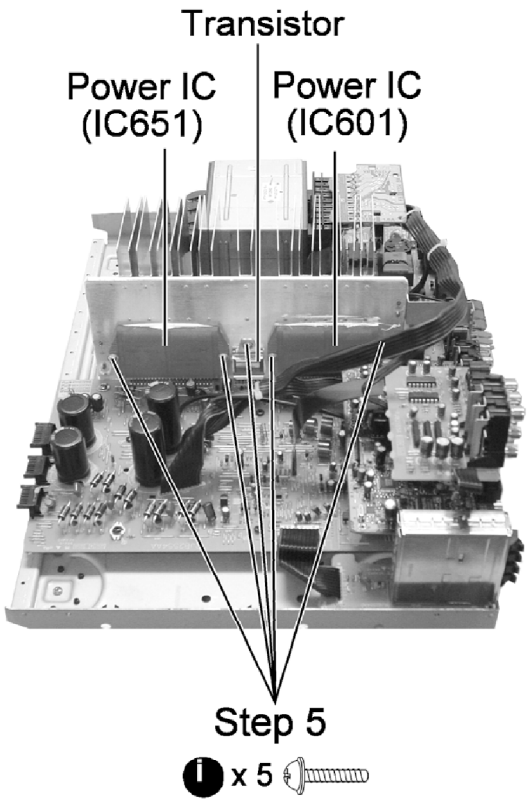


Step 2 Cut the joints as shown below. (6 joints)



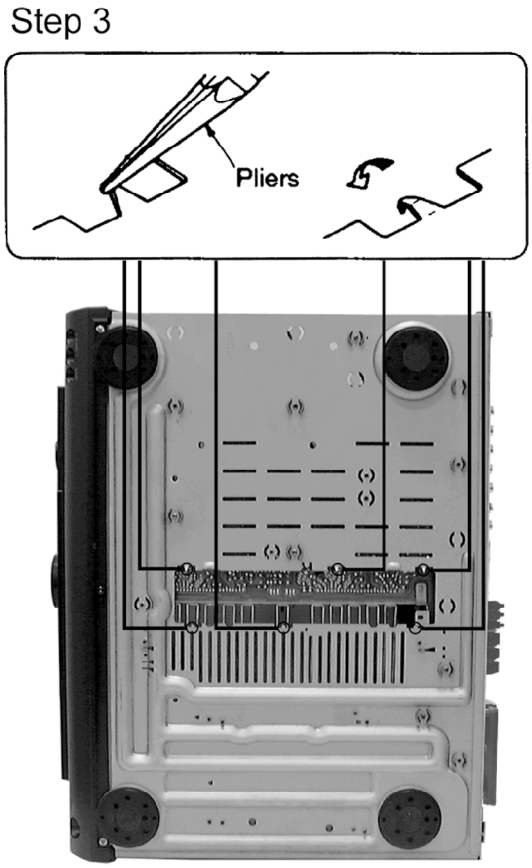
Step 3 Fold the joints. (6 joints)

Step 4 Desolder the terminals of Power IC and Regulator Transistor.



Step 5 Remove all the screws.

7.2.2. Installation of the bottom cover after replacement



Step 1 Upset the bottom cover.
Step 2 Align the ribs of bottom cover into the bugs.
Step 3 Prepare the screws to fix the bottom cover.

8. Self-Diagnostic Function

8.1. Self-Diagnostic Function and Service Mode

8.1.1. Display Content

Item	Abnormal Status	Error Display
Low Frequency	Abnormal power amp output	F61
	Abnormal communication between peripheral LST and Micro Computer	F70
Power Supply Display	Abnormal Stabilized power supply	F76

9. Type Illustrations of ICs, Transistors & Diodes

10. Terminal Functions of ICs

- IC901 (C2BBGF000334) MICRO COMPUTER

Pin No.	Mark	I/O	Function
1~2	KEY1~KEY2	I	Key Input 1~2
3	RDS_CLK	-	RDS Data IC CLOCK
4	RDS_DO	-	RDS Data IC - DATA OUT
5	RDS_DI	-	RDS Data IC - DATA IN
6	RDS_CE	-	Control of RDS IC(Not used, open)
7	THRM/OVLD1	I	Thermal/Over load input 1
8	THRM/OVLD2	I	Thermal/Over load input 2
9	SD	I	SD signal detect input
10	IF DATA	I	IF DATA input
11	TNR_CE	O	Tuner control (CE) chip enable signal
12	SFC_ENCD_1	I	SFC mode encoder input 1
13	SFC_ENCD_2	I	SFC mode encoder input 2
14	TC9482_CLK	O	Volume control - CLK
15	TC9482_DT	O	Volume control - DT
16	TC9482_ST	O	Volume control - ST
17	CNVSS	-	-
18	RESET	-	Reset detect terminal
19	DSP_PASS / DSP_OFF	O	DSP signal selector
20	MOS_FET_LED	O	MOS FET LED
21	VSS	I	Ground
22	XIN	I	Crystal oscillator terminal (4 MHz)
23	XOUT	O	Crystal oscillator terminal (4 MHz)
24	VCC	I	Power supply terminal
25	VOL_ENCD_1	O	Volume encoder input 1
26	VOL_ENCD_2	O	Volume encoder input 2
27	CS4226_CDOUT	I	CS4226 serial data input
28	CS4226_CS	I	CS4226 chip selector
29	CS4226_ OVLERR	I	CS4226 overload error input
30	CS49326_ INTREQ	I	CS49326 input request
31	REMOTE	I	Remote control terminal
32	HOLD	I	Blackout detection terminal
33	FRONT_VCR2	I	Encoder of surround mode selector input1
34	SEL_ENCD_1	I	Selector encoder for input 1
35	SEL_ENCD_2	I	Selector encoder for input 2

			2
36	TAPE_LED	O	Tape Selector LED
37	VCR_LED	O	VCR Selector LED
38	TV_LED	O	TV Selector LED
39	DVD_LED	O	DVD Selector LED
40	CD_LED	O	CD Selector LED
41	TU_LED	O	TUNER Selector LED
42	PHONO_LED	O	PHONO Selector LED
43	DIGITAL_LED	O	DIGITAL INPUT LED
44	DVD_6CH_LED	O	DVD 6CH LED
45	LIMITTER	O	Power limitter control output
46	TC916x_STB	O	Selector/Tuner (CK) clock signal
47	TC916x_ TNR_CK	O	Selector/Tuner/DVD 6CH SW-CK
48	TC916x_ TNR_DT	O	Selector/Tuner/DVD 6CH SW-DT
49	S/C SP	O	Surround/Center speaker control output
50	SP_B	O	Speaker B control output
51	SP_A	O	Speaker A control output
52	RELAY	O	Relay control output
53	AF_MUTE	O	Muting control output
54	SUBW_MUTE	O	Subwoofer muting
55	WAKE_LED	-	Wake up timer LED (Not used, open)
56	VCR_MUTE	O	VCR RECORD MUTE
57~59	NOT USED	-	NOT USED
60~78	SEG19~ SEG1	O	FL segment signal output
79~88	DEG1~ DEG10	O	FL digit signal output
89	VEE	-	Power supply for FL driver
90	CS49326_ SCDOUT	O	CS49326 serial data power output
91	CS49326_CDIN	I	CS49326 serial data power input
92	CS49326_CCLK	I	CS49326 serial clock
93	CS49326_CS	I	CS49326 chip selector
94	CS4226_RESET	I	CS4226 reset
95	CS49326_ RESET	I	CS49326 reset
96	INIT_IN	I	Diode input intial settings
97	AVSS	-	Ground
98	VREF	-	Reference voltage
99	VIDEO_B	O	Video selector control output B

100	VIDEO_A	O	Video selector control output A

11. Block Diagram

12. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology.)
Notes:

S950	**Power Switch**
S952	**Speaker Switch**
S953	**SFC Mode Swtich**
S954	**Timer Swtich**
S955	**Memory Switch**
S956	**FM Mode Switch**
S957	**Band Switch**
S958	**Preset Switch**
S959	**Tuning Up Switch**
S960	**Tuning Down Switch**
S962	**Reset Help Switch**
S964	**Sound Mode Switch**
S965	**Digital Switch**
S966	**DVD 6CH**
S967	**+/Right Switch**
S968	**-/Left Switch**
S969	**Tone/Balance Switch**
S970	**Tape Monitor Switch**
S971	**Sub. Woofer Level Switch**
VR902	**Vr Rotary Encoder**
VR901	**Vr Volume Encoder**

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

< > ...FM

- Importance safety notice:
Components identifed by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing

any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.

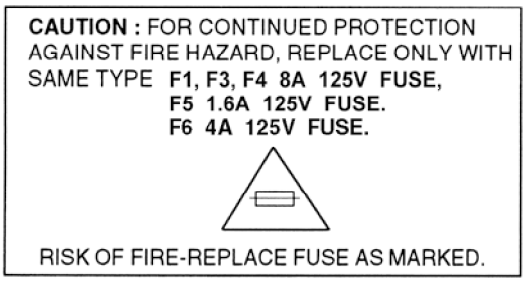
Secondary trouble can be prevented by taking care during repair.

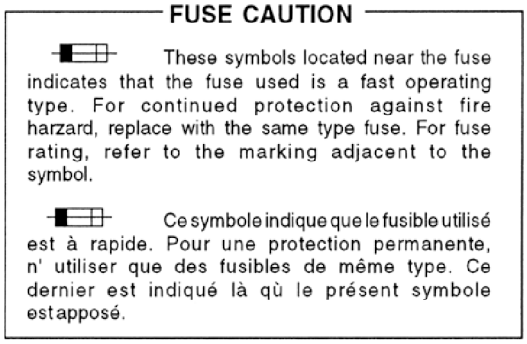
- Cover the parts boxes made of plastics with aluminium foil.

- Put a conductive mat on the work table.

- Ground the soldering iron.

- Do not touch the pins of IC, LSI or VLSI with fingers directly.


CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1, F3, F4 8A 125V FUSE,
F5 1.6A 125V FUSE.
F6 4A 125V FUSE.
RISK OF FIRE-REPLACE FUSE AS MARKED.


FUSE CAUTION
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

13. Printed Circuit Board

14. Wiring Connection Diagram

15. Parts Location and Replacement Parts List

Notes:

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of these components, be sure to use only manufacturers's specified parts shown in the parts list.

- The parenthesized indications in the Remarks column specify the areas or color. (Refer to the cover page for area or color.) Parts without these indications can be used for all areas.

- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads(pF); Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000(ohms).

- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws govening part and product retention. After the end of this period, the assembly will no longer be available.

- [M] indicates in the Remarks columns indicates parts that are supplied by MESA.

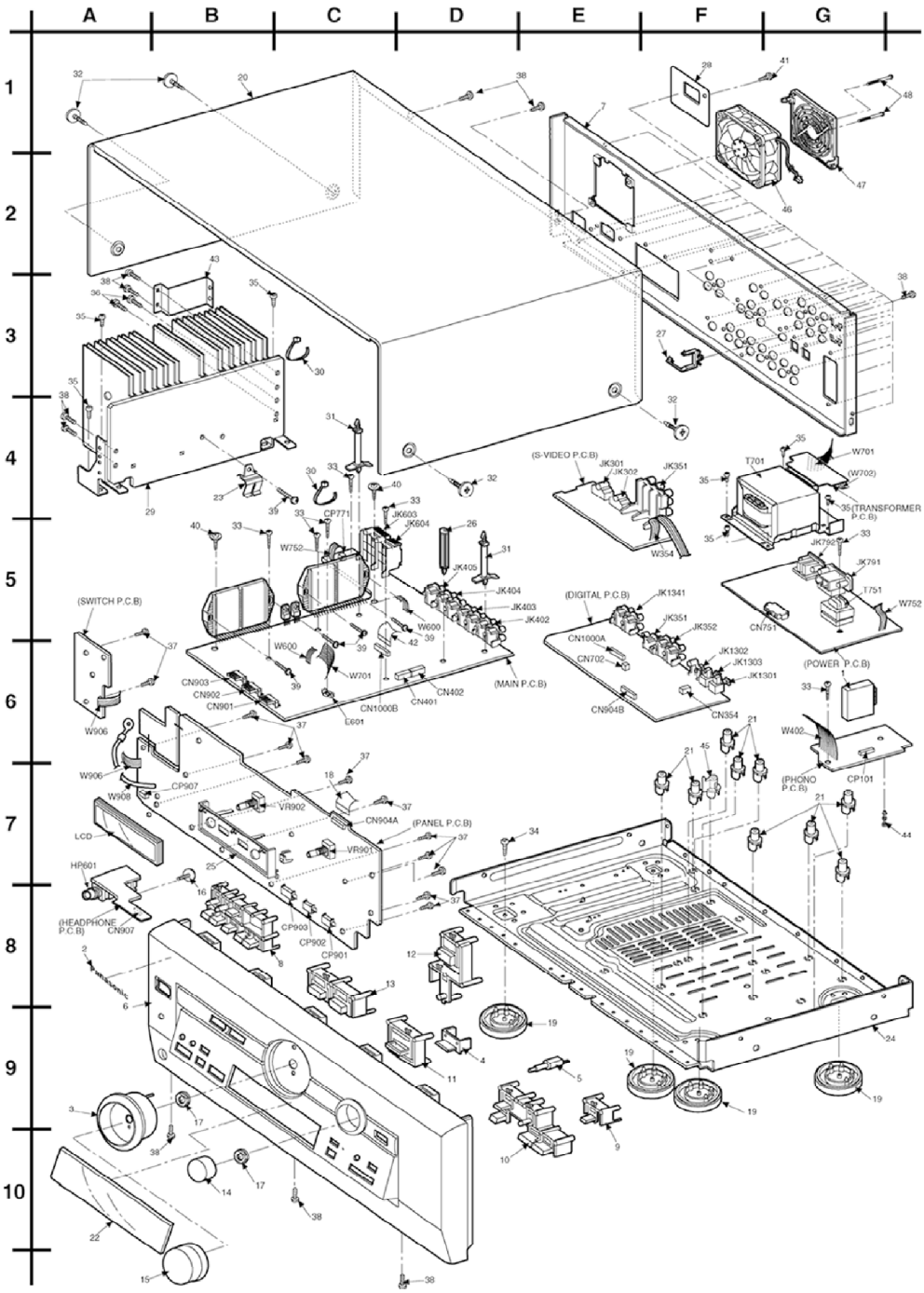
- The "(SF)" mark denotes the standard part.

- Reference for O/I book languages are as follows :

Ar : Arabic	**Cf : Canadian French**	**Cz : Czech**	**Da : Danish**
Du : Dutch	**En : English**	**Fr : French**	**Ge : German**
It : Italian	**Ko : Korean**	**Po : Polish**	**Ru : Russian**
Sp : Spanish	**Sw : Swedish**	**Co : Traditional Chinese**	**Cn : Simplified Chi**

15.1. Cabinet

15.1.1. Cabinet Parts Location



15.1.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RAN0001MM	TUNER	[M]
2	RGB0036-2N	PANASONIC BADGE	[M]
3	RGKV0001-1S	VOLUME RING	[M]K
3	RGKV0001-S	VOLUME RING	[M]S
4	RGL0533-Q	DIGITAL LIGHT GUIDE	[M]
5	RGL0534-Q	MON. LIGHT GUIDE	[M]
6	RGPV0001G-K	FRONT PANEL	[M]K
6	RGPV0001G-S	FRONT PANEL	[M]S
7	RGR0306T-A	REAR PANEL	[M]P
7	RGR0306T-B	REAR PANEL	[M]PC
8	RGU1941E-K	MODE BUTTON	[M]K
8	RGU1941E-S	MODE BUTTON	[M]S
9	RGU1947-K	6CH BUTTON	[M]K
9	RGU1947-S	6CH INPUT BUTTON	[M]S
10	RGU1942-2K	TONE BUTTON	[M]K
10	RGU1942-S	TONE BUTTON	[M]S
11	RGU1945-2K	DIGITAL BUTTON	[M]K
11	RGU1945-S	DIGITAL BUTTON	[M]S
12	RGU1943-2K	POWER BUTTON	[M]K
12	RGU1943-S	POWER BUTTON	[M]S
13	RGU1944A-K	SFC BUTTON	[M]K
13	RGU1944A-S	SFC BUTTON	[M]S
14	RGW0280-1K	SELECTOR KNOB	[M]K
14	RGW0280-S	SELECTOR KNOB	[M]S
15	RGW0359-1K	VOLUME KNOB	[M]K
15	RGW0359-S	VOLUME KNOB	[M]S
16	RHD26016	SCREW (PHONE JACK)	[M]
17	RHN90001	M9 NUT	[M]
18	REE1071	FCC#1 (PANEL-DIGITAL	[M]
19	RKA0079A-A	LEG UNIT	[M]
20	RKM0373C-1K	TOP CABINET	[M]K
20	RKM0373C-S	CABINET	[M]S
21	RKQ0089A	PCB SUPPORT	[M]
22	RKWV0001-Q	FL WINDOW	[M]
23	RMC0158-S	TRANSISTOR HOLDER	[M]
24	RMK0320-1	BOTTOM CHASSIS	[M]
25	RMN0628	FL HOLDER	[M]
26	RMN0648	PCB SUPPORT 2	[M]
27	RMN0649	WIRE CLAMPER	[M]
28	RMV0220	AC BARRIER	[M]
29	RXX0233	HEAT SINK UNIT	[M]
30	SHR301	WIRE CRAMPER	[M]
31	SHR9683	PCB SUPPORT 1	[M]
32	SNE2129-3	SCREW (CABINET)	[M]K
32	SNE2129-2	SCREW (CABINET)	[M]S
33	XTB3+20JFZ	SCREW	[M]
34	XTB3+6G	SCREW	[M]
35	XTB3+8FFZ	SCREW	[M]
36	XTB3+8JFZ	SCREW	[M]
37	XTBS26+10J	SCREW	[M]
38	XTBS3+8JFZ1	SCREW	[M]
39	XTW3+15T	SCREW	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
40	XTWS3+8T	SCREW	[M]
41	XTW3+8PFZ	SCREW	[M]
42	REE1072	FCC#2 (MAIN - DIGITAL)	[M]
43	RMQ1030	HEAT SINK ANGLE	[M]
44	SHR8006	PCB SPACER	[M]
45	RMN0392	PCB SUPPORT	[M]
46	REM0080B	FAN UNIT	[M]
47	RGQ0231-K	FAN COVER	[M]
48	XTB3+35JFZ	SCREW (FAN)	[M]

15.2. Components Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3350A-T	DIGITAL P.C.B. (SIDE: A, B)	[M](RTL)
	REP3349A-M	MAIN P.C.B./TRANSFORMER P.C.B./SUB-TRANSFORMER P.C.B.	[M](RTL)P
	REP3349B-M	MAIN P.C.B./TRANSFORMER P.C.B./SUB-TRANSFORMER P.C.B.	[M](RTL)PC
	REP3351A-S	PANEL P.C.B./SWITCH P.C.B./HEADPHONE P.C.B./PHONO EQ P.C.B.	[M](RTL)
	REP3352A-T	VIDEO P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC301	C1AA00000123	IC VIDEO SELECTOR SW	[M]
IC302	C1AA00000123	IC VIDEO SELECTOR SW	[M]
IC351	C1AA00000647	IC VIDEO SELECTOR SW	[M]
IC351	NJM2279MTE1	IC VIDEO SELECTOR	[M]
IC352	C1AA00000647	IC VIDEO SELECTOR SW	[M]
IC353	C1AA00000647	IC VIDEO SELECTOR SW	[M]
IC401	TC9163AN	IC SELECTOR	[M]
IC402	C0AABB000086	IC OP AMP	[M]
IC601	RSN310R36A-P	IC 3CH HIC	[M] ⚠
IC651	RSN310R36A-P	IC 3CH HIC	[M] ⚠
IC901	C2BBGF000334	IC MICOM	[M]
IC1001	C2HBZZ000008	IC DECODER DSP	[M]
IC1002	C0FBZJ000004	IC DIGITAL ANALOG CONVERTER	[M]
IC1003	SN74LV244APW	IC CONVERTER	[M]
IC1004	SN7AHCT244PW	IC CONVERTER	[M]
IC1005	SN74HCU04APW	IC INVERTER	[M]
IC1006	SNAHC1U04DBV	IC OSCILLATOR	[M]
IC1201	NJM2060MTE1	IC OP AMP	[M]
IC1203	C0ABBB000127	IC OP AMP	[M]
IC1230	NJM2060MTE1	IC OP AMP	[M]
IC1231	C0ABBB000127	IC OP AMP	[M]
IC1301	NJM2060MTE1	IC OP AMP	[M]
IC1302	NJM2060MTE1	IC OP AMP	[M]
IC1401	C0JBAS000175	IC ANALOG SWITCH	[M]
IC1402	TC9482F	IC VOLUME	[M]
IC1451	C0ABBB000127	IC OP AMP	[M]
IC1452	NJM2060MTE1	IC OP AMP	[M]
IC1521	C0ABBB000102	IC OP AMP	[M]
IC1522	C0ABBB000102	IC OP AMP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1701	BA25BC0FP	IC REGULATOR	[M] ⚠
		TRANSISTORS	
Q351	2SD592AQSTA	TRANSISTOR	[M] ⚠
Q352	2SB621AQSTA	TRANSISTOR	[M] ⚠
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q555	2SD1915FTA	TRANSISTOR	[M]
Q556	2SD1915FTA	TRANSISTOR	[M]
Q557	2SD1915FTA	TRANSISTOR	[M]
Q560	KRA102MTA	TRANSISTOR	[M] ⚠
Q601	KRA119MTA	TRANSISTOR	[M]
Q602	KRA119MTA	TRANSISTOR	[M]
Q604	KRA102MTA	TRANSISTOR	[M] ⚠
Q605	KRA102MTA	TRANSISTOR	[M]
Q651	KRA119MTA	TRANSISTOR	[M]
Q652	KRA119MTA	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q703	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q704	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q706	KTD863	TRANSISTOR	[M] ⚠
Q707	2SA1534ALA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q723	KRA102MTA	TRANSISTOR	[M] ⚠
Q724	KRC102MTA	TRANSISTOR	[M] ⚠
Q725	KRC107MTA	TRANSISTOR	[M] ⚠
Q751	RVTDTC143ZST	TRANSISTOR	[M]
Q752	KTD863	TRANSISTOR	[M] ⚠
Q753	2SK2880CTA	TRANSISTOR	[M] ⚠
Q754	KRC102MTA	TRANSISTOR	[M] ⚠
Q771	KTA1267GRTA	TRANSISTOR	[M]
Q772	KTC3199GRTA	TRANSISTOR	[M]
Q773	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	KRA102MTA	TRANSISTOR	[M]
Q776	KTC3199GRTA	TRANSISTOR	[M]
Q777	KTA1267GRTA	TRANSISTOR	[M]
Q778	KTA1267GRTA	TRANSISTOR	[M]
Q779	KTA1267GRTA	TRANSISTOR	[M]
Q780	KTA1267GRTA	TRANSISTOR	[M] ⚠
Q781	KTC3199GRTA	TRANSISTOR	[M]
Q901	KRC107MTA	TRANSISTOR	[M]
Q902	KTA1267GRTA	TRANSISTOR	[M]
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
Q1681	2SD1915FTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1682	2SD1915FTA	TRANSISTOR	[M]
Q1701	KTC2026	TRANSISTOR	[M] ⚠
Q1702	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q1703	KTC3199GRTA	TRANSISTOR	[M] ⚠
		DIODES	
D301	B0AACK000004	DIODE	[M]
D302	B0AACK000004	DIODE	[M]
D351	B0BA01100004	DIODE	[M]
D351	UDZSTE175R6B	DIODE	[M]
D352	UDZSTE175R6B	DIODE	[M]
D353	B0ACCK000005	DIODE	[M]
D354	B0ACCK000005	DIODE	[M]
D401	B0BA7R500006	DIODE	[M]
D501	B0AACK000004	DIODE	[M]
D601	B0JAPG000008	DIODE	[M]
D602	B0JAPG000008	DIODE	[M]
D605	B0AACK000004	DIODE	[M]
D611	B0AACK000004	DIODE	[M]
D612	B0AACK000004	DIODE	[M]
D613	B0AACK000004	DIODE	[M]
D614	B0AACK000004	DIODE	[M]
D617	B0AACK000004	DIODE	[M]
D618	MTZJ16CTA	DIODE	[M]
D651	B0JAPG000008	DIODE	[M]
D652	B0JAPG000008	DIODE	[M]
D667	B0AACK000004	DIODE	[M]
D668	MTZJ16CTA	DIODE	[M]
D701	1N5402BM21	DIODE	[M] ⚠
D702	1N5402BM21	DIODE	[M] ⚠
D703	1N5402BM21	DIODE	[M] ⚠
D704	1N5402BM21	DIODE	[M] ⚠
D705	B0BA6R100003	DIODE	[M]
D707	B0BA03200003	DIODE	[M]
D708	MTZJ16CTA	DIODE	[M]
D721	1N5402BM21	DIODE	[M] ⚠
D722	1N5402BM21	DIODE	[M] ⚠
D723	1N5402BM21	DIODE	[M] ⚠
D724	1N5402BM21	DIODE	[M] ⚠
D725	1N5402BM21	DIODE	[M] ⚠
D726	1N5402BM21	DIODE	[M] ⚠
D727	1N5402BM21	DIODE	[M] ⚠
D728	1N5402BM21	DIODE	[M] ⚠
D731	B0AACK000004	DIODE	[M]
D732	B0AACK000004	DIODE	[M]
D733	B0AACK000004	DIODE	[M]
D734	B0AACK000004	DIODE	[M]P
D741	1SR35400V	DIODE	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D742	1SR35400V	DIODE	[M] ⚠
D743	1SR35400V	DIODE	[M] ⚠
D744	1SR35400V	DIODE	[M] ⚠
D751	1SR35400V	DIODE	[M] ⚠
D752	1SR35400V	DIODE	[M] ⚠
D753	1SR35400V	DIODE	[M] ⚠
D754	1SR35400V	DIODE	[M] ⚠
D755	B0AACK000004	DIODE	[M]
D756	B0BA6R600008	DIODE	[M]
D757	MTZJ16CTA	DIODE	[M]
D768	B0BA3R300010	DIODE	[M]
D769	B0AACK000004	DIODE	[M]
D770	B0AACK000004	DIODE	[M]
D771	RB721Q40T77	DIODE	[M] ⚠
D772	RB721Q40T77	DIODE	[M] ⚠
D773	B0BA8R200005	DIODE	[M]
D774	RB721Q40T77	DIODE	[M]
D781	RB721Q40T77	DIODE	[M] ⚠
D782	RB721Q40T77	DIODE	[M] ⚠
D901	1SS291TA	DIODE	[M]
D902	B0AACK000004	DIODE	[M]
D903	B0BA5R600016	DIODE	[M]
D904	B0BA4R000003	DIODE	[M]
D907	MA2C167A0E	DIODE	[M]
D911	B0AACK000004	DIODE	[M]
D913	B0AACK000004	DIODE	[M]
D914	1SS291TA	DIODE	[M]
D938	SLR325MCT31	DIODE	[M]
D940	B3ACA0000063	DIODE	[M]
D944	SLR325MCT31	DIODE	[M]
D1705	UDZSTE176R2B	DIODE	[M]
		VARIABLE RESISTORS	
VR901	K9AA012A0002	ROTARY ENCODER	[M]
VR902	RRV16B24304A	VOLUME ENCODER	[M]
		SWITCHES	
S950	EVQ21405RJ	SW POWER	[M]
S952	EVQ21405RJ	SW SPEAKER	[M]
S953	EVQ21405RJ	SW SFC MODE	[M]
S954	EVQ21405RJ	SW TIMER	[M]
S955	EVQ21405RJ	SW MEMORY	[M]
S956	EVQ21405RJ	SW FM MODE	[M]
S957	EVQ21405RJ	SW BAND	[M]
S958	EVQ21405RJ	SW PRESET	[M]
S959	EVQ21405RJ	SW TUNING UP	[M]
S960	EVQ21405RJ	SW TUNING DOWN	[M]
S962	EVQ21405RJ	SW RESET HELP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S964	EVQ21405RJ	SW SOUND MODE	[M]
S965	EVQ21405RJ	SW DIGITAL	[M]
S966	EVQ21405RJ	SW DVD 6CH	[M]
S967	EVQ21405RJ	SW +/RIGHT	[M]
S968	EVQ21405RJ	SW -/LEFT	[M]
S969	EVQ21405RJ	SW TONE/BALANCE	[M]
S970	EVQ21405RJ	SW TAPE MONITOR	[M]
S971	EVQ21405RJ	SW SUB.WOOFER LEVEL	[M]
		CONNECTORS	
CN354	K1MP06A00009	6P TAPING CONNECTOR	[M]
CN401	K1MP04A00008	4P TAPING CONNECTOR	[M]
CN402	K1MP06A00009	6P TAPING CONNECTOR	[M]
CN702	K1MP03A00010	3P TAPING CONNECTOR	[M]
CN751	K1ML03B00002	3P CONNECTOR	[M]
CN901	K1KB08A00046	BOAD IN CONNECTOR	[M]
CN902	K1KB08A00046	BOAD IN CONNECTOR	[M]
CN903	K1KB10A00065	10P B/B CONNECTOR	[M]
CN904A	K1MN18A00038	18P FFC CONNECTOR	[M]
CN904B	K1MN18A00038	18P FFC CONNECTOR	[M]
CN907	RJU100W04	4P CONNECTOR	[M]
CN1000A	K1MN18A00038	18P FFC CONNECTOR	[M]
CN1000B	K1MN18A00038	18P FFC CONNECTOR	[M]
CP101	K1KA11A00093	11P CONNECTOR	[M]
CP771	K1KA02A00008	FAN CONNECTOR	[M]
CP901	RJT003K008M1	8P CONNECTOR	[M]
CP902	RJT003K008M1	8P CONNECTOR	[M]
CP903	RJT003K010M1	10P CONNECTOR	[M]
CP907	RJT100W04	4P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L651	RLQYR73MW-E	CHOKE COIL	[M]
L652	RLQYR73MW-E	CHOKE COIL	[M]
L653	RLQYR73MW-E	CHOKE COIL	[M]
L701	RLQT801M-W	CHOKE COIL	[M] ⚠
L751	G0C101KA0030	CHOKE COIL	[M]
L901	G0C101KA0030	CHOKE COIL	[M]
L1001	G1C2R2K00008	CHIP INDUCTOR	[M]
L1002	G1C2R2K00008	CHIP INDUCTOR	[M]
L1003	G1C2R2K00008	CHIP INDUCTOR	[M]
L1004	G1C2R2K00008	CHIP INDUCTOR	[M]
L1303	VLQ0855M1R0T	CHIP INDUCTOR	[M]
L1304	RLQZ150M-0	CHOKE COIL	[M]
T701	RTP1Q5C018-V	POWER TRANSFORMER	[M] ⚠
T751	RTP1H5C005	STANDBY TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	

Ref. No.	Part No.	Part Name & Description	Remarks
Z751	ERZV10V511CS	ZENER	[M] ⚠
Z901	B3RAB0000013	REMOTE SENSOR	[M]
Z1304	J0JKB0000020	EMI BEAD CORE	[M]
Z1308	J0JKB0000020	EMI BEAD CORE	[M]
		CERAMIC FILTERS	
CF901	H2B400400008	CERAMIC OSCILLATOR	[M]
		RELAY	
RL601	K6B2AHA00014	RELAY	[M] ⚠
RL602	K6B2AHA00014	RELAY	[M] ⚠
RL603	K6B2AHA00014	RELAY	[M] ⚠
RL604	K6B2AHA00014	RELAY	[M] ⚠
RL751	RSY0040M-0	POWER RELAY	[M]P ⚠
RL751	RSY0054-C	PC POWER RELAY	[M]PC ⚠
		OSCILLATORS	
X1001	H0J122200001	CYRSTAL	[M]
		DISPLAY TUBE	
FL901	A2BB00000100	FL DISPLAY	[M]
		FUSES	
F1	XBA1C80NBAL	FUSE	[M] ⚠
F3	XBA1C80NBAL	FUSE	[M] ⚠
F4	XBA1C80NBAL	FUSE	[M] ⚠
F5	XBA1C16NBAU	FUSE	[M] ⚠
F6	XBA1C40NBAL	FUSE	[M] ⚠
		FUSE HOLDERS	
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
FC705	EYF52BC	FUSE HOLDER	[M]
FC706	EYF52BC	FUSE HOLDER	[M]
FC707	EYF52BC	FUSE HOLDER	[M]
FC708	EYF52BC	FUSE HOLDER	[M]
FC709	EYF52BC	FUSE HOLDER	[M]
FC710	EYF52BC	FUSE HOLDER	[M]
FC711	EYF52BC	FUSE HOLDER	[M]
FC712	EYF52BC	FUSE HOLDER	[M]
		JACK	
HP601	K2HB103J0063	HEADPHONES JACK	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		JACKS	
JK301	RJS1D1404	JK S VIDEO TERMINAL	[M]
JK302	RJS1D1404	JK S VIDEO TERMINAL	[M]
JK351	K4BK01H00001	JK 1 PIN RCA	[M]
JK351	K4BK09H00001	JK 9 PIN RCA	[M]
JK352	K4BK04H00002	JK 4 PIN RCA	[M]
JK402	K4BK04H00001	JK 4 PIN RCA	[M]
JK403	K4BK04H00001	JK 4 PIN RCA	[M]
JK404	K4BK04H00001	JK 4 PIN RCA	[M]
JK405	K4BK02H00002	JK 2 PIN RCA	[M]
JK603	K4BC04B00043	JK SPEAKER TERMINAL	[M]
JK604	K4BC06B00022	JK SPEAKER TERMINAL	[M]
JK791	SJSD16-1	JK AC INLET	[M] ⚠
JK792	K2A22H000004	JK AC OUTLET	[M] ⚠
JK1301	K7ABBC000001	JK OPTICAL INPUT	[M]
JK1302	RJH2110N-3	JK 1 PIN RCA	[M]
JK1303	K7ABBC000001	JK OPTICAL INPUT	[M]
JK1341	K4BK04H00003	JK 4P RCA	[M]
		EARTH TERMINAL	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
E1301	RSC0551	EARTH ANGLE	[M]
		WIRES	
W354	RWJ1806120SX	WIRE	[M]
W402	RWJ1810120SX	10P WIRE	[M]
W600	RWJ1806250SS	WIRE	[M]
W601	REE1104	WIRE	[M]
W701	RWJ1812520SS	WIRE	[M]
W702	RWJ1803320SX	WIRE	[M]
W752	RWJ1803180SS	WIRE	[M]
W906	RWJ1805150SS	WIRE	[M]
W908	REZ1372	EARTH WIRE	[M]
		RESISTORS	
R301	ERDS2TJ750T	75 1/4W	[M]
R302	ERDS2TJ104T	100K 1/4W	[M]
R303	ERDS2TJ103T	10K 1/4W	[M]
R304	ERDS2TJ750T	75 1/4W	[M]
R305	ERDS2TJ750T	75 1/4W	[M]
R306	ERDS2TJ104T	100K 1/4W	[M]
R307	ERDS2TJ103T	10K 1/4W	[M]
R308	ERDS2TJ750T	75 1/4W	[M]
R309	ERDS2TJ750T	75 1/4W	[M]
R310	ERDS2TJ750T	75 1/4W	[M]
R311	ERDS2TJ750T	75 1/4W	[M]
R312	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R313	ERDS2TJ103T	10K 1/4W	[M]
R314	ERDS2TJ750T	75 1/4W	[M]
R315	ERDS2TJ750T	75 1/4W	[M]
R316	ERDS2TJ750T	75 1/4W	[M]
R317	ERDS2TJ102T	1K 1/4W	[M]
R318	ERDS2TJ102T	1K 1/4W	[M]
R351	ERDS2TJ750T	75 1/4W	[M]
R351	ERJ3GEYJ750V	75 1/16W	[M]
R352	ERDS2TJ750T	75 1/4W	[M]
R352	ERJ3GEYJ750V	75 1/16W	[M]
R353	ERDS2TJ750T	75 1/4W	[M]
R353	ERJ3GEYJ750V	75 1/16W	[M]
R354	ERDS2TJ750T	75 1/4W	[M]
R354	ERJ3GEYJ750V	75 1/16W	[M]
R355	ERDS2TJ750T	75 1/4W	[M]
R355	ERJ3GEYJ103V	10K 1/16W	[M]
R356	ERDS2TJ750T	75 1/4W	[M]
R356	ERJ3GEYJ103V	10K 1/16W	[M]
R357	ERDS2TJ750T	75 1/4W	[M]
R357	ERJ3GEYJ103V	10K 1/16W	[M]
R358	ERDS2TJ750T	75 1/4W	[M]
R358	ERJ3GEYJ102V	1K 1/16W	[M]
R359	ERDS2TJ750T	75 1/4W	[M]
R359	ERJ3GEYJ102V	1K 1/16W	[M]
R360	ERD2FCVG220T	22 1/4W	[M]
R360	ERDS2TJ750T	75 1/4W	[M]
R361	ERDS2TJ750T	75 1/4W	[M]
R361	ERJ3GEYJ182V	1.8K 1/16W	[M]
R362	ERDS2TJ750T	75 1/4W	[M]
R362	ERJ3GEYJ182V	1.8K 1/16W	[M]
R363	ERD2FCVG220T	22 1/4W	[M]
R363	ERDS2TJ750T	75 1/4W	[M]
R364	ERDS2TJ750T	75 1/4W	[M]
R364	ERJ3GEYJ750V	75 1/16W	[M]
R365	ERDS2TJ750T	75 1/4W	[M]
R366	ERDS1FVJ220T	22 1/2W	[M]
R401	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ102T	1K 1/4W	[M]
R403	ERDS2TJ102T	1K 1/4W	[M]
R404	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ102T	1K 1/4W	[M]
R406	ERDS2TJ102T	1K 1/4W	[M]
R407	ERDS2TJ102T	1K 1/4W	[M]
R408	ERDS2TJ102T	1K 1/4W	[M]
R409	ERDS2TJ102T	1K 1/4W	[M]
R410	ERDS2TJ102T	1K 1/4W	[M]
R411	ERDS2TJ102T	1K 1/4W	[M]
R412	ERDS2TJ102T	1K 1/4W	[M]
R413	ERDS2TJ102T	1K 1/4W	[M]
R414	ERDS2TJ102T	1K 1/4W	[M]
R415	ERDS2TJ102T	1K 1/4W	[M]
R416	ERDS2TJ102T	1K 1/4W	[M]
R417	ERDS2TJ473T	47K 1/4W	[M]
R418	ERDS2TJ473T	47K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R419	ERDS2TJ104T	100K 1/4W	[M]
R420	ERDS2TJ104T	100K 1/4W	[M]
R421	ERDS2TJ104T	100K 1/4W	[M]
R422	ERDS2TJ104T	100K 1/4W	[M]
R423	ERDS2TJ102T	1K 1/4W	[M]
R424	ERDS2TJ102T	1K 1/4W	[M]
R425	ERDS2TJ103T	10K 1/4W	[M]
R426	ERDS2TJ103T	10K 1/4W	[M]
R427	ERDS2TJ103T	10K 1/4W	[M]
R449	ERDS1FVJ560T	56 1/2W	[M] ⚠
R450	ERDS1FVJ560T	56 1/2W	[M] ⚠
R467	ERDS2TJ473T	47K 1/4W	[M]
R468	ERDS2TJ473T	47K 1/4W	[M]
R543	ERDS2TJ223T	22K 1/4W	[M]P
R544	ERDS2TJ104T	100K 1/4W	[M]
R545	ERDS2TJ684T	680K 1/4W	[M]
R546	ERDS2TJ104T	100K 1/4W	[M]
R547	ERDS2TJ684T	680K 1/4W	[M]
R548	ERDS2TJ822T	8.2K 1/4W	[M]
R549	ERDS2TJ822T	8.2K 1/4W	[M]
R550	ERDS2TJ822T	8.2K 1/4W	[M]
R551	ERDS2TJ102T	1K 1/4W	[M]
R552	ERDS2TJ102T	1K 1/4W	[M]
R553	ERDS2TJ102T	1K 1/4W	[M]
R554	ERDS2TJ102T	1K 1/4W	[M]
R555	ERDS2TJ102T	1K 1/4W	[M]
R556	ERDS2TJ102T	1K 1/4W	[M]
R557	ERDS2TJ102T	1K 1/4W	[M]
R581	ERDS2TJ473T	47K 1/4W	[M]
R582	ERDS2TJ473T	47K 1/4W	[M]
R583	ERDS2TJ473T	47K 1/4W	[M]
R584	ERDS2TJ473T	47K 1/4W	[M]
R585	ERDS2TJ473T	47K 1/4W	[M]
R586	ERDS2TJ473T	47K 1/4W	[M]
R591	ERDS2TJ272T	2.7K 1/4W	[M]
R592	ERDS2TJ272T	2.7K 1/4W	[M]
R593	ERDS2TJ272T	2.7K 1/4W	[M]
R594	ERDS2TJ272T	2.7K 1/4W	[M]
R595	ERDS2TJ272T	2.7K 1/4W	[M]
R596	ERDS2TJ272T	2.7K 1/4W	[M]
R603	ERDS2TJ182T	1.8K 1/4W	[M]
R604	ERDS2TJ182T	1.8K 1/4W	[M]
R605	ERDS2TJ221T	220 1/4W	[M]
R606	ERDS2TJ221T	220 1/4W	[M]
R607	ERDS2TJ563T	56K 1/4W	[M]
R608	ERDS2TJ563T	56K 1/4W	[M]
R609	ERDS2TJ470T	47 1/4W	[M]
R610	ERDS2TJ470T	47 1/4W	[M]
R611	ERDS1FVJ100T	10 1/2W	[M] ⚠
R612	ERDS1FVJ100T	10 1/2W	[M] ⚠
R613	ERDS2TJ182T	1.8K 1/4W	[M]
R614	ERDS2TJ182T	1.8K 1/4W	[M]
R615	ERDS2TJ681T	680 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R616	ERD25FVJ181T	180 1/4W	[M]
R617	ERD25FVJ181T	180 1/4W	[M]
R618	ERD25FVJ181T	180 1/4W	[M]
R619	ERD25FVJ181T	180 1/4W	[M]
R621	ERDS2TJ682T	6.8K 1/4W	[M]
R622	ERDS2TJ682T	6.8K 1/4W	[M]
R624	ERD25FVJ4R7T	4.7 1/4W	[M]
R625	ERG1SJ101E	100 1W	[M] ⚠
R626	ERG1SJ101E	100 1W	[M] ⚠
R627	ERG1SJ101E	100 1W	[M] ⚠
R628	ERG1SJ101E	100 1W	[M] ⚠
R629	ERDS2TJ102T	1K 1/4W	[M]
R630	ERDS2TJ124T	120K 1/4W	[M]
R631	ERDS2TJ154T	150K 1/4W	[M]
R632	ERDS2TJ184T	180K 1/4W	[M]
R633	ERDS2TJ473T	47K 1/4W	[M]
R634	ERDS2TJ474T	470K 1/4W	[M]
R635	ERDS2TJ154T	150K 1/4W	[M]
R637	ERDS2TJ154T	150K 1/4W	[M]
R638	ERDS2TJ154T	150K 1/4W	[M]
R639	ERDS2TJ104T	100K 1/4W	[M]
R640	ERDS2TJ681T	680 1/4W	[M]
R642	ERDS2TJ182T	1.8K 1/4W	[M]
R643	ERDS2TJ563T	56K 1/4W	[M]
R644	ERDS1FVJ100T	10 1/2W	[M] ⚠
R645	ERDS2TJ470T	47 1/4W	[M]
R647	ERDS2TJ221T	220 1/4W	[M]
R653	ERDS2TJ182T	1.8K 1/4W	[M]
R654	ERDS2TJ182T	1.8K 1/4W	[M]
R655	ERDS2TJ221T	220 1/4W	[M]
R656	ERDS2TJ221T	220 1/4W	[M]
R657	ERDS2TJ563T	56K 1/4W	[M]
R658	ERDS2TJ563T	56K 1/4W	[M]
R661	ERDS1FVJ100T	10 1/2W	[M] ⚠
R662	ERDS1FVJ100T	10 1/2W	[M] ⚠
R663	ERDS2TJ470T	47 1/4W	[M]
R664	ERDS2TJ470T	47 1/4W	[M]
R674	ERD25FVJ4R7T	4.7 1/4W	[M]
R675	ERDS2TJ182T	1.8K 1/4W	[M]
R676	ERDS2TJ182T	1.8K 1/4W	[M]
R677	ERDS2TJ182T	1.8K 1/4W	[M]
R678	ERDS2TJ182T	1.8K 1/4W	[M]
R679	ERDS2TJ102T	1K 1/4W	[M]
R681	ERDS2TJ184T	180K 1/4W	[M]
R682	ERDS2TJ224T	220K 1/4W	[M]
R683	ERDS2TJ473T	47K 1/4W	[M]
R684	ERDS2TJ474T	470K 1/4W	[M]
R685	ERDS2TJ154T	150K 1/4W	[M]
R687	ERDS2TJ154T	150K 1/4W	[M]
R688	ERDS2TJ154T	150K 1/4W	[M]
R692	ERDS2TJ182T	1.8K 1/4W	[M]
R693	ERDS2TJ563T	56K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R694	ERDS2TJ221T	220 1/4W	[M]
R695	ERDS2TJ124T	120K 1/4W	[M]
R696	ERDS2TJ470T	47 1/4W	[M]
R697	ERDS1FVJ100T	10 1/2W	[M] ⚠
R698	ERDS2TJ182T	1.8K 1/4W	[M]
R699	ERDS2TJ182T	1.8K 1/4W	[M]
R705	ERDS2TJ472T	4.7K 1/4W	[M]
R706	ERDS2TJ102T	1K 1/4W	[M]
R707	ERD25FVJ221T	220 1/4W	[M]
R708	ERDS2TJ152T	1.5K 1/4W	[M]
R711	ERDS2TJ752T	7.5K 1/4W	[M]
R712	ERDS2TJ682T	6.8K 1/4W	[M]
R713	ERDS2TJ390T	39 1/4W	[M]
R714	ERDS2TJ390T	39 1/4W	[M]
R718	ERDS2TJ333T	33K 1/4W	[M]
R719	ERDS2TJ333T	33K 1/4W	[M]
R720	ERDS2TJ103T	10K 1/4W	[M]
R721	ERDS1FVJ561T	560 1/2W	[M] ⚠
R722	ERDS2TJ123T	12K 1/4W	[M]
R723	ERDS1FVJ1R2T	1.2 1/2W	[M] ⚠
R724	ERDS1FVJ1R2T	1.2 1/2W	[M] ⚠
R725	ERDS2TJ152T	1.5K 1/4W	[M]
R726	ERD25FVJ121T	120 1/4W	[M]
R728	ERDS2TJ684T	680K 1/4W	[M]
R729	ERDS2TJ684T	680K 1/4W	[M]
R730	ERDS1FVJ5R6T	5.6 1/2W	[M] ⚠
R751	ERC12UGK335D	3.3M 1/2W	[M]
R755	ERDS2TJ222T	2.2K 1/4W	[M]
R759	ERDS1FVJ220T	22 1/2W	[M]PC ⚠
R766	ERDS2TJ473T	47K 1/4W	[M]
R767	ERDS2TJ154T	150K 1/4W	[M]
R768	ERDS2TJ103T	10K 1/4W	[M]
R769	ERDS2TJ103T	10K 1/4W	[M]
R770	ERDS2TJ104T	100K 1/4W	[M]
R771	ERDS2TJ104T	100K 1/4W	[M]
R773	ERDS2TJ103T	10K 1/4W	[M]
R774	ERDS2TJ155T	1.5M 1/4W	[M]
R775	ERDS2TJ331T	330 1/4W	[M]
R776	ERDS1FVJ220T	22 1/2W	[M]
R777	ERDS2TJ154T	150K 1/4W	[M]
R778	ERDS2TJ472T	4.7K 1/4W	[M]
R779	ERDS2TJ103T	10K 1/4W	[M]
R780	ERDS1FVJ3R9T	3.9 1/2W	[M]
R782	ERDS2TJ390T	39 1/4W	[M]
R784	ERDS2TJ154T	150K 1/4W	[M]
R786	ERDS2TJ154T	150K 1/4W	[M]
R791	ERDS2TJ123T	12K 1/4W	[M]
R792	ERDS2TJ123T	12K 1/4W	[M]
R794	ERDS2TJ123T	12K 1/4W	[M]
R796	ERDS2TJ123T	12K 1/4W	[M]
R797	ERDS2TJ223T	22K 1/4W	[M]
R798	ERDS2TJ223T	22K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R799	ERDS2TJ682T	6.8K 1/4W	[M]
R901	ERDS2TJ102T	1K 1/4W	[M]
R902	ERDS2TJ472T	4.7K 1/4W	[M]
R903	ERDS2TJ103T	10K 1/4W	[M]
R904	ERDS2TJ102T	1K 1/4W	[M]
R905	ERDS2TJ104T	100K 1/4W	[M]
R906	ERDS2TJ271T	270 1/4W	[M]
R907	ERDS2TJ121T	120 1/4W	[M]
R908	ERDS2TJ223T	22K 1/4W	[M]
R909	ERDS2TJ223T	22K 1/4W	[M]
R910	ERDS2TJ222T	2.2K 1/4W	[M]
R911	ERDS2TJ222T	2.2K 1/4W	[M]
R912	ERDS2TJ104T	100K 1/4W	[M]
R915	ERDS2TJ101T	100 1/4W	[M]
R916	ERDS2TJ101T	100 1/4W	[M]
R917	ERDS2TJ102T	1K 1/4W	[M]
R918	ERDS2TJ103T	10K 1/4W	[M]
R919	ERDS2TJ103T	10K 1/4W	[M]
R920	ERDS2TJ103T	10K 1/4W	[M]
R921	ERDS2TJ472T	4.7K 1/4W	[M]
R922	ERDS2TJ104T	100K 1/4W	[M]
R923	ERDS2TJ103T	10K 1/4W	[M]
R924	ERDS2TJ103T	10K 1/4W	[M]
R927	ERDS2TJ101T	100 1/4W	[M]
R928	ERDS2TJ101T	100 1/4W	[M]
R938	ERDS2TJ151T	150 1/4W	[M]
R940	ERDS2TJ271T	270 1/4W	[M]
R946	ERDS2TJ151T	150 1/4W	[M]
R950	ERDS2TJ102T	1K 1/4W	[M]
R951	ERDS2TJ222T	2.2K 1/4W	[M]
R952	ERDS2TJ152T	1.5K 1/4W	[M]
R953	ERDS2TJ182T	1.8K 1/4W	[M]
R954	ERDS2TJ222T	2.2K 1/4W	[M]
R955	ERDS2TJ332T	3.3K 1/4W	[M]
R956	ERDS2TJ472T	4.7K 1/4W	[M]
R957	ERDS2TJ682T	6.8K 1/4W	[M]
R958	ERDS2TJ123T	12K 1/4W	[M]
R960	ERDS2TJ102T	1K 1/4W	[M]
R961	ERDS2TJ122T	1.2K 1/4W	[M]
R962	ERDS2TJ152T	1.5K 1/4W	[M]
R963	ERDS2TJ182T	1.8K 1/4W	[M]
R964	ERDS2TJ222T	2.2K 1/4W	[M]
R965	ERDS2TJ332T	3.3K 1/4W	[M]
R966	ERDS2TJ472T	4.7K 1/4W	[M]
R967	ERDS2TJ682T	6.8K 1/4W	[M]
R968	ERDS2TJ123T	12K 1/4W	[M]
R991	ERDS2TJ104T	100K 1/4W	[M]
R992	ERDS2TJ104T	100K 1/4W	[M]
R993	ERDS2TJ104T	100K 1/4W	[M]
R994	ERDS2TJ104T	100K 1/4W	[M]
R1012	ERJ3GEYJ103V	10K 1/16W	[M]
R1013	ERJ3GEYJ103V	10K 1/16W	[M]
R1014	ERJ3GEYJ103V	10K 1/16W	[M]
R1015	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1016	ERJ3GEYJ103V	10K 1/16W	[M]
R1017	ERJ3GEYJ103V	10K 1/16W	[M]
R1018	ERJ3GEYJ103V	10K 1/16W	[M]
R1019	ERJ3GEYJ103V	10K 1/16W	[M]
R1020	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1021	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1022	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1023	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1025	ERJ3GEYJ103V	10K 1/16W	[M]
R1026	ERJ3GEYJ330V	33 1/16W	[M]
R1027	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1028	ERJ3GEYJ333V	33K 1/16W	[M]
R1029	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1030	ERJ3GEYJ105V	1M 1/16W	[M]
R1031	ERJ3GEYJ102V	1K 1/16W	[M]
R1032	ERJ3GEYJ330V	33 1/16W	[M]
R1033	ERJ3GEYJ102V	1K 1/16W	[M]
R1034	ERJ3GEYJ102V	1K 1/16W	[M]
R1035	ERJ3GEYJ102V	1K 1/16W	[M]
R1036	ERJ3GEYJ102V	1K 1/16W	[M]
R1037	ERJ3GEYJ104V	100K 1/16W	[M]
R1038	ERJ3GEYJ102V	1K 1/16W	[M]
R1039	ERJ3GEYJ104V	100K 1/16W	[M]
R1040	ERJ3GEYJ102V	1K 1/16W	[M]
R1041	ERJ3GEYJ330V	33 1/16W	[M]
R1042	ERJ3GEYJ330V	33 1/16W	[M]
R1043	ERJ3GEYJ470V	47 1/16W	[M]
R1044	ERJ3GEYJ470V	47 1/16W	[M]
R1045	ERJ3GEYJ470V	47 1/16W	[M]
R1046	ERJ3GEYJ470V	47 1/16W	[M]
R1047	ERJ3GEYJ1R5V	1.5 1/16W	[M]
R1048	ERJ3GEYJ104V	100K 1/16W	[M]
R1049	ERJ3GEYJ102V	1K 1/16W	[M]
R1050	ERJ3GEYJ102V	1K 1/16W	[M]
R1051	ERJ3GEYJ102V	1K 1/16W	[M]
R1052	ERJ3GEYJ102V	1K 1/16W	[M]
R1053	ERJ3GEYJ102V	1K 1/16W	[M]
R1054	ERJ3GEYJ102V	1K 1/16W	[M]
R1055	ERJ3GEYJ102V	1K 1/16W	[M]
R1056	ERJ3GEYJ102V	1K 1/16W	[M]
R1057	ERJ3GEYJ102V	1K 1/16W	[M]
R1058	ERJ3GEYJ102V	1K 1/16W	[M]
R1059	ERJ3GEYJ102V	1K 1/16W	[M]
R1060	ERJ3GEYJ102V	1K 1/16W	[M]
R1061	ERJ3GEYJ102V	1K 1/16W	[M]
R1062	ERJ3GEYJ102V	1K 1/16W	[M]
R1063	ERJ3GEYJ102V	1K 1/16W	[M]
R1064	ERJ3GEYJ331V	330 1/16W	[M]
R1065	ERJ3GEYJ331V	330 1/16W	[M]
R1066	ERJ3GEYJ331V	330 1/16W	[M]
R1067	ERJ3GEYJ331V	330 1/16W	[M]
R1068	ERJ3GEYJ473V	47K 1/16W	[M]
R1069	ERJ3GEYJ100V	10 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1201	ERJ3GEYJ102V	1K 1/16W	[M]
R1202	ERJ3GEYJ473V	47K 1/16W	[M]
R1203	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1204	ERJ3GEYJ183V	18K 1/16W	[M]
R1205	ERJ3GEYJ102V	1K 1/16W	[M]
R1206	ERJ3GEYJ473V	47K 1/16W	[M]
R1207	ERJ3GEYJ473V	47K 1/16W	[M]
R1208	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1210	ERJ3GEYJ183V	18K 1/16W	[M]
R1211	ERJ3GEYJ183V	18K 1/16W	[M]
R1212	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1213	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1214	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1215	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1216	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1217	ERJ3GEYJ473V	47K 1/16W	[M]
R1218	ERJ3GEYJ473V	47K 1/16W	[M]
R1219	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1225	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1231	ERJ3GEYJ473V	47K 1/16W	[M]
R1232	ERJ3GEYJ473V	47K 1/16W	[M]
R1233	ERJ3GEYJ473V	47K 1/16W	[M]
R1234	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1235	ERJ3GEYJ102V	1K 1/16W	[M]
R1236	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1237	ERJ3GEYJ101V	100 1/16W	[M]
R1238	ERJ3GEYJ183V	18K 1/16W	[M]
R1239	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1240	ERJ3GEYJ102V	1K 1/16W	[M]
R1241	ERJ3GEYJ102V	1K 1/16W	[M]
R1242	ERJ3GEYJ183V	18K 1/16W	[M]
R1243	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1244	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1245	ERJ3GEYJ183V	18K 1/16W	[M]
R1247	ERJ3GEYJ102V	1K 1/16W	[M]
R1248	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1249	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1250	ERJ3GEYJ561V	560 1/16W	[M]
R1251	ERJ3GEYJ182V	1.8K 1/16W	[M]
R1252	ERJ3GEYJ473V	47K 1/16W	[M]
R1260	ERJ3GEYJ104V	100K 1/16W	[M]
R1261	ERJ3GEYJ104V	100K 1/16W	[M]
R1301	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1302	ERJ3GEYJ102V	1K 1/16W	[M]
R1303	ERJ3GEYJ470V	47 1/16W	[M]
R1304	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1305	ERJ3GEYJ102V	1K 1/16W	[M]
R1306	ERJ3GEYJ470V	47 1/16W	[M]
R1307	ERJ3GEYJ151V	150 1/16W	[M]
R1308	ERJ3GEYJ100V	10 1/16W	[M]
R1309	ERJ3GEYJ470V	47 1/16W	[M]
R1310	ERJ3GEYJ100V	10 1/16W	[M]
R1341	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1342	ERJ3GEYJ102V	1K 1/16W	[M]
R1343	ERJ3GEYJ102V	1K 1/16W	[M]
R1344	ERJ3GEYJ102V	1K 1/16W	[M]
R1345	ERJ3GEYJ104V	100K 1/16W	[M]
R1346	ERJ3GEYJ104V	100K 1/16W	[M]
R1347	ERJ3GEYJ104V	100K 1/16W	[M]
R1348	ERJ3GEYJ104V	100K 1/16W	[M]
R1349	ERJ3GEYJ473V	47K 1/16W	[M]
R1350	ERJ3GEYJ473V	47K 1/16W	[M]
R1351	ERJ3GEYJ473V	47K 1/16W	[M]
R1352	ERJ3GEYJ473V	47K 1/16W	[M]
R1353	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1354	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1355	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1356	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1357	ERJ3GEYJ101V	100 1/16W	[M]
R1358	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1359	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1360	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1361	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1402	ERJ3GEYJ102V	1K 1/16W	[M]
R1403	ERJ3GEYJ102V	1K 1/16W	[M]
R1404	ERJ3GEYJ473V	47K 1/16W	[M]
R1405	ERJ3GEYJ473V	47K 1/16W	[M]
R1406	ERJ3GEYJ473V	47K 1/16W	[M]
R1407	ERJ3GEYJ103V	10K 1/16W	[M]
R1408	ERJ3GEYJ103V	10K 1/16W	[M]
R1409	ERJ3GEYJ103V	10K 1/16W	[M]
R1410	ERJ3GEYJ473V	47K 1/16W	[M]
R1411	ERJ3GEYJ473V	47K 1/16W	[M]
R1412	ERJ3GEYJ473V	47K 1/16W	[M]
R1413	ERJ3GEYJ102V	1K 1/16W	[M]
R1414	ERJ3GEYJ102V	1K 1/16W	[M]
R1415	ERJ3GEYJ102V	1K 1/16W	[M]
R1451	ERJ3GEYJ473V	47K 1/16W	[M]
R1452	ERJ3GEYJ182V	1.8K 1/16W	[M]
R1453	ERJ3GEYJ101V	100 1/16W	[M]
R1454	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1455	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1456	ERJ3GEYJ101V	100 1/16W	[M]
R1457	ERJ3GEYJ182V	1.8K 1/16W	[M]
R1458	ERJ3GEYJ473V	47K 1/16W	[M]
R1459	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1460	ERJ3GEYJ102V	1K 1/16W	[M]
R1461	ERJ3GEYJ473V	47K 1/16W	[M]
R1462	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1463	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1464	ERJ3GEYJ473V	47K 1/16W	[M]
R1465	ERJ3GEYJ102V	1K 1/16W	[M]
R1466	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1467	ERJ3GEYJ102V	1K 1/16W	[M]
R1468	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1469	ERJ3GEYJ682V	6.8K 1/16W	[M]
R1470	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1480	ERJ3GEYJ104V	100K 1/16W	[M]
R1481	ERJ3GEYJ104V	100K 1/16W	[M]
R1483	ERJ3GEYJ104V	100K 1/16W	[M]
R1484	ERJ3GEYJ104V	100K 1/16W	[M]
R1521	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1522	ERJ3GEYJ223V	22K 1/16W	[M]
R1523	ERJ3GEYJ224V	220K 1/16W	[M]
R1524	ERJ3GEYJ103V	10K 1/16W	[M]
R1525	ERJ3GEYJ103V	10K 1/16W	[M]
R1526	ERJ3GEYJ103V	10K 1/16W	[M]
R1527	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1528	ERJ3GEYJ223V	22K 1/16W	[M]
R1529	ERJ3GEYJ224V	220K 1/16W	[M]
R1530	ERJ3GEYJ103V	10K 1/16W	[M]
R1531	ERJ3GEYJ103V	10K 1/16W	[M]
R1681	ERDS2TJ270T	27 1/4W	[M]
R1682	ERDS2TJ270T	27 1/4W	[M]
R1683	ERDS2TJ270T	27 1/4W	[M]
R1684	ERDS2TJ270T	27 1/4W	[M]
R1685	ERDS2TJ270T	27 1/4W	[M]
R1686	ERDS2TJ270T	27 1/4W	[M]
R1687	ERDS2TJ270T	27 1/4W	[M]
R1688	ERDS2TJ270T	27 1/4W	[M]
R1689	ERDS2TJ270T	27 1/4W	[M]
R1690	ERDS2TJ270T	27 1/4W	[M]
R1691	ERDS2TJ270T	27 1/4W	[M]
R1692	ERDS2TJ270T	27 1/4W	[M]
R1693	ERDS2TJ270T	27 1/4W	[M]
R1694	ERDS2TJ270T	27 1/4W	[M]
R1695	ERDS2TJ102T	1K 1/4W	[M]
R1696	ERDS2TJ102T	1K 1/4W	[M]
R1699	ERDS2TJ332T	3.3K 1/4W	[M]
R1701	ERDS1FVJ4R7T	4.7 1/2W	[M]
R1702	ERDS1FVJ4R7T	4.7 1/2W	[M]
R1703	ERJ3GEYJ103V	10K 1/16W	[M]
R1704	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1705	ERJ3GEYJ331V	330 1/16W	[M]
R1706	ERJ3GEYJ331V	330 1/16W	[M]
R1707	ERJ3GEYJ821V	820 1/16W	[M]
R1916	ERJ3GEYJ101V	100 1/16W	[M]
R1928	ERJ3GEYJ101V	100 1/16W	[M]
R1929	ERJ3GEYJ101V	100 1/16W	[M]
R1930	ERJ3GEYJ101V	100 1/16W	[M]
R1931	ERJ3GEYJ101V	100 1/16W	[M]
R1932	ERJ3GEYJ101V	100 1/16W	[M]
R1933	ERJ3GEYJ101V	100 1/16W	[M]
R1934	ERJ3GEYJ101V	100 1/16W	[M]
R1942	ERJ3GEYJ101V	100 1/16W	[M]
R1943	ERJ3GEYJ101V	100 1/16W	[M]
R1945	ERJ3GEYJ101V	100 1/16W	[M]
		CAPACITORS	
C301	ECA1CAK470XB	47 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C302	F1D1H223A012	0.022 50V	[M]
C303	ECA1CAK470XB	47 16V	[M]
C304	F1D1H223A012	0.022 50V	[M]
C305	F1D1H470A006	47P 50V	[M]
C306	F1D1H470A006	47P 50V	[M]
C307	ECA1CAK470XB	47 16V	[M]
C308	F1D1H223A012	0.022 50V	[M]
C309	F1D1H470A006	47P 50V	[M]
C310	F1D1H470A006	47P 50V	[M]
C311	F1D1H1040002	0.1 50V	[M]
C312	F1D1H1040002	0.1 50V	[M]
C313	F1D1H1040002	0.1 50V	[M]
C314	F1D1H1040002	0.1 50V	[M]
C315	ECA0JAK101XB	100 6.3V	[M]
C316	ECA0JAK101XB	100 6.3V	[M]
C351	ECA0JAM102XB	1000 6.3V	[M]
C351	ECJ1VC1H470J	47 50V	[M]
C352	ECA0JAM102XB	1000 6.3V	[M]
C352	ECJ1VC1H470J	47 50V	[M]
C353	ECA0JAM102XB	1000 6.3V	[M]
C353	ECA1CAK470XB	47 16V	[M]
C354	ECA1CAK470XB	47 16V	[M]
C355	ECA1CAK470XB	47 16V	[M]
C356	ECA1CAK470XB	47 16V	[M]
C356	ECUVNC104ZFV	0.1 16V	[M]
C357	ECA1CAK470XB	47 16V	[M]
C357	ECUVNC104ZFV	0.1 16V	[M]
C358	ECA0JAK101XB	100 6.3V	[M]
C358	ECA1CAK470XB	47 16V	[M]
C359	ECA0JAK101XB	100 6.3V	[M]
C359	ECA1CAK470XB	47 16V	[M]
C360	ECUV1H103KBV	0.01 50V	[M]
C360	F1D1H1040002	0.1 50V	[M]
C361	ECA0JAK101XB	100 6.3V	[M]
C361	F1D1H1040002	0.1 50V	[M]
C362	ECA0JAK101XB	100 6.3V	[M]
C362	F1D1H1040002	0.1 50V	[M]
C363	ECUV1H103KBV	0.01 50V	[M]
C363	F1D1H1040002	0.1 50V	[M]
C364	F1D1H1040002	0.1 50V	[M]
C365	F1D1H1040002	0.1 50V	[M]
C366	ECA0JAK101XB	100 6.3V	[M]
C367	F1D1H1040002	0.1 50V	[M]
C368	F1D1H1040002	0.1 50V	[M]
C369	F1D1H1040002	0.1 50V	[M]
C401	ECA1HAK4R7XB	4.7 50V	[M]
C402	ECA1HAK4R7XB	4.7 50V	[M]
C403	ECBT1H103KB5	0.01 50V	[M]
C404	ECBT1H103KB5	0.01 50V	[M]
C405	F1D1H101A012	100P 50V	[M]
C409	ECA1CAK220XB	22 16V	[M]
C410	ECA1CAK220XB	22 16V	[M]
C411	F1D1H101A012	100P 50V	[M]
C412	F1D1H101A012	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C413	ECA1CAK100XB	10 16V	[M]
C414	ECA1CAK100XB	10 16V	[M]
C415	ECBT1H103KB5	0.01 50V	[M]
C416	ECBT1H103KB5	0.01 50V	[M]
C417	ECA1CAK100XB	10 16V	[M]
C418	ECA1CAK100XB	10 16V	[M]
C467	ECBT1H103KB5	0.01 50V	[M]
C533	F1D1H1040002	0.1 50V	[M]
C534	F1D1H1040002	0.1 50V	[M]
C535	F1D1H1040002	0.1 50V	[M]
C583	ECA1CAK100XB	10 16V	[M]
C584	ECA1CAK100XB	10 16V	[M]
C585	ECA1CAK100XB	10 16V	[M]
C586	ECA1CAK100XB	10 16V	[M]
C601	ECA1JAM330XB	33 63V	[M]
C602	ECA1JAM330XB	33 63V	[M]
C603	F1D1H821A012	820P 50V	[M]
C604	F1D1H821A012	820P 50V	[M]
C607	ECCR1H180KC5	18P 50V	[M]
C608	ECCR1H180KC5	18P 50V	[M]
C611	ECQV1H473JZ3	0.047 50V	[M]
C612	ECQV1H473JZ3	0.047 50V	[M]
C615	ECBT1H103KB5	0.01 50V	[M]
C616	ECA1HAM470XB	47 50V	[M]
C617	ECEA2AN2R2SB	2.2 100V	[M]
C618	F1D1H102A012	1000P 50V	[M]
C622	ECA2AAM330XB	33 100V	[M]
C625	ECEA1HN220UB	22 50V	[M]
C626	ECEA1HN220UB	22 50V	[M]
C641	ECA1JAM330XB	33 63V	[M]
C642	F1D1H821A012	820P 50V	[M]
C643	ECCR1H180KC5	18P 50V	[M]
C644	ECQV1H473JZ3	0.047 50V	[M]
C651	ECA1JAM330XB	33 63V	[M]
C652	ECA1JAM330XB	33 63V	[M]
C653	F1D1H821A012	820P 50V	[M]
C654	F1D1H821A012	820P 50V	[M]
C657	ECCR1H180KC5	18P 50V	[M]
C658	ECCR1H180KC5	18P 50V	[M]
C661	ECQV1H473JZ3	0.047 50V	[M]
C662	ECQV1H473JZ3	0.047 50V	[M]
C666	ECA1HAM470XB	47 50V	[M]
C667	ECEA2AN2R2SB	2.2 100V	[M]
C668	F1D1H102A012	1000P 50V	[M]
C672	ECA2AAM330XB	33 100V	[M]
C685	ECBT1H103KB5	0.01 50V	[M]
C692	ECA1JAM330XB	33 63V	[M]
C693	ECCR1H180KC5	18P 50V	[M]
C694	F1D1H821A012	820P 50V	[M]
C695	ECQV1H473JZ3	0.047 50V	[M]
C701	ECBT1H103KB5	0.01 50V	[M]
C702	ECQE2104KF3	0.1 250V	[M]
C703	RCE1J472MHSK	4700P 63V	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
C704	RCE1J472MHSK	4700P 63V	[M] ⚠
C705	RCE1V562MHSK	5600P 35V	[M] ⚠
C706	RCE1V562MHSK	5600P 35V	[M] ⚠
C707	ECA1VAM101XB	100 35V	[M]
C708	ECBT1H103KB5	0.01 50V	[M]
C709	ECA1CAK330XB	33 16V	[M]
C710	ECBT1H103KB5	0.01 50V	[M]
C711	ECBT1H103KB5	0.01 50V	[M]
C712	ECA1HAK100XB	10 50V	[M]
C713	ECBT1H103KB5	0.01 50V	[M]
C714	ECA1EAK470XB	47 25V	[M]
C715	ECA1CAK101XB	100 16V	[M]
C721	ECQE2104KF3	0.1 250V	[M]
C722	ECQE2104KF3	0.1 250V	[M]
C741	ECQV1H104JZ3	0.1 50V	[M]
C751	ECKWRS102MBC	1000P 400V	[M] ⚠
C752	ECKR1H103ZF5	0.01 50V	[M]
C753	ECA1EAM331XB	330 25V	[M]
C754	ECBT1H103KB5	0.01 50V	[M]
C755	ECA1CAK470XB	47 16V	[M]
C757	ECA1CAK100XB	10 16V	[M]
C758	ECA1CAK101XB	100 16V	[M]
C771	ECA1HAK4R7XB	4.7 50V	[M]
C772	ECA1HAK4R7XB	4.7 50V	[M]
C773	F1D1H1040002	0.1 50V	[M]
C774	ECA0JAK101XB	100 6.3V	[M]
C775	ECA1CAK100XB	10 16V	[M]
C776	ECA1HAK010XB	1 50V	[M]
C777	ECA1CAM221XB	220 16V	[M]
C778	ECA1CAK101XB	100 16V	[M]
C779	ECA1CAK101XB	100 16V	[M]
C780	ECA1CAM471XB	470 16V	[M]
C781	ECBT1H103KB5	0.01 50V	[M]
C901	ECA0JAM102XB	1000 6.3V	[M] ⚠
C902	F1D1H1040002	0.1 50V	[M]
C903	ECBT1H103KB5	0.01 50V	[M]
C904	ECA0JAM102XB	1000 6.3V	[M] ⚠
C905	ECA1HAK010XB	1 50V	[M]
C906	ECA1HAK010XB	1 50V	[M]
C907	ECBT1H103KB5	0.01 50V	[M]
C908	ECBT1H103KB5	0.01 50V	[M]
C909	ECA1HAK220XB	22 50V	[M]
C910	ECA1HAK220XB	22 50V	[M]
C911	ECA1HAK220XB	22 50V	[M]
C912	ECA1HAK220XB	22 50V	[M]
C913	ECA1HAK100XB	10 50V	[M]
C914	ECA1HAK100XB	10 50V	[M]
C915	ECA0JAK101XB	100 6.3V	[M]
C916	ECBT1H103KB5	0.01 50V	[M]
C917	ECA1CAK100XB	10 16V	[M]
C918	F1D1H471A012	470P 50V	[M]
C919	F1D1H471A012	470P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C921	F1D1H331A012	330P 50V	[M]
C922	F1D1H331A012	330P 50V	[M]
C923	F1D1H331A012	330P 50V	[M]
C924	F1D1H331A012	330P 50V	[M]
C925	F1D1H331A012	330P 50V	[M]
C926	F1D1H331A012	330P 50V	[M]
C927	F1D1H331A012	330P 50V	[M]
C928	F1D1H331A012	330P 50V	[M]
C929	F1D1H331A012	330P 50V	[M]
C930	F1D1H331A012	330P 50V	[M]
C991	F1D1H101A012	100P 50V	[M]
C992	F1D1H101A012	100P 50V	[M]
C993	F1D1H101A012	100P 50V	[M]
C994	F1D1H101A012	100P 50V	[M]
C1003	ECA1HAK010XB	1 50V	[M]
C1004	ECA0JAK101XB	100 6.3V	[M]
C1005	ECA0JAK101XB	100 6.3V	[M]
C1006	ECA1EAM331XB	330 25V	[M]
C1007	ECA1HAK2R2XB	2.2 50V	[M]
C1008	ECA0JAK101XB	100 6.3V	[M]
C1009	ECA0JAK101XB	100 6.3V	[M]
C1010	ECA0JAK101XB	100 6.3V	[M]
C1011	ECA0JAK101XB	100 6.3V	[M]
C1024	ECUVNC104ZFV	0.1 16V	[M]
C1025	ECUVNC104ZFV	0.1 16V	[M]
C1026	ECUVNC104ZFV	0.1 16V	[M]
C1027	ECUVNC104ZFV	0.1 16V	[M]
C1028	ECJ1VC1H101K	100P 50V	[M]
C1029	ECUVNC104ZFV	0.1 16V	[M]
C1030	ECUV1H471KBV	470P 50V	[M]
C1031	ECUV1E103KBV	0.01 25V	[M]
C1032	ECUVNC104ZFV	0.1 16V	[M]
C1033	ECUV1H220JCV	22P 50V	[M]
C1034	ECJ1VC1H101K	100P 50V	[M]
C1035	ECUV1H220JCV	22P 50V	[M]
C1036	ECJ1VC1H101K	100P 50V	[M]
C1037	ECJ1VB1H102K	1000P 50V	[M]
C1038	ECJ1VB1H102K	1000P 50V	[M]
C1039	ECJ1VC1H101K	100P 50V	[M]
C1040	ECUVNC104ZFV	0.1 16V	[M]
C1041	ECUVNC104ZFV	0.1 16V	[M]
C1042	ECJ1VB1H102K	1000P 50V	[M]
C1043	ECUVNC104ZFV	0.1 16V	[M]
C1044	ECJ1VC1H101K	100P 50V	[M]
C1045	ECJ1VC1H101K	100P 50V	[M]
C1046	ECJ1VB1H102K	1000P 50V	[M]
C1047	ECJ1VB1H102K	1000P 50V	[M]
C1048	ECUVNC104ZFV	0.1 16V	[M]
C1049	ECJ1VB1H102K	1000P 50V	[M]
C1050	ECJ1VB1H102K	1000P 50V	[M]
C1051	ECUV1H152KBV	1500P 50V	[M]
C1052	ECUV1E103KBV	0.01 25V	[M]
C1053	ECUVNC104ZFV	0.1 16V	[M]
C1070	ECA1EPXS470B	47 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1201	ECUV1H103KBV	0.01 50V	[M]
C1202	ECUV1A224KBV	0.22 10V	[M]
C1203	ECA1CAK330XB	33 16V	[M]
C1204	ECUV1H103KBV	0.01 50V	[M]
C1205	ECA1CAK330XB	33 16V	[M]
C1206	ECJ1VB1H472K	4700P 50V	[M]
C1207	ECJ1VB1H272K	2700P 50V	[M]
C1208	ECJ1VB1H472K	4700P 50V	[M]
C1209	ECJ1VB1H272K	2700P 50V	[M]
C1210	ECA1CAK330XB	33 16V	[M]
C1211	ECJ1VC1H101K	100P 50V	[M]
C1212	ECJ1VC1H101K	100P 50V	[M]
C1213	ECUV1H221KBV	220P 50V	[M]
C1214	ECUV1H221KBV	220P 50V	[M]
C1215	ECA1HAK100XB	10 50V	[M]
C1216	ECA1HAK100XB	10 50V	[M]
C1217	ECUV1H103KBV	0.01 50V	[M]
C1218	ECUV1H103KBV	0.01 50V	[M]
C1219	ECA1EAK100XB	10 25V	[M]
C1220	ECA1EAK100XB	10 25V	[M]
C1221	ECUVNC104ZFV	0.1 16V	[M]
C1222	ECA1EAK100XB	10 25V	[M]
C1223	ECUVNC104ZFV	0.1 16V	[M]
C1224	ECQV1H104JZ3	0.1 50V	[M]
C1231	ECA1CAK330XB	33 16V	[M]
C1232	ECJ1VB1H472K	4700P 50V	[M]
C1233	ECJ1VB1H472K	4700P 50V	[M]
C1234	ECA1CAK330XB	33 16V	[M]
C1235	ECJ1VB1H472K	4700P 50V	[M]
C1236	ECA1CAK330XB	33 16V	[M]
C1237	ECJ1VB1H331K	330P 50V	[M]
C1238	ECJ1VC1H101K	100P 50V	[M]
C1239	ECJ1VB1H272K	2700P 50V	[M]
C1240	ECJ1VB1H272K	2700P 50V	[M]
C1241	ECJ1VC1H101K	100P 50V	[M]
C1242	ECJ1VC1H101K	100P 50V	[M]
C1243	ECJ1VB1H272K	2700P 50V	[M]
C1244	ECUV1H103KBV	0.01 50V	[M]
C1245	ECUV1H103KBV	0.01 50V	[M]
C1246	ECA1EAK100XB	10 25V	[M]
C1247	ECA1EAK100XB	10 25V	[M]
C1250	ECJ1VB1E223K	0.022 25V	[M]
C1251	ECA1CAK330XB	33 16V	[M]
C1252	ECUV1H103KBV	0.01 50V	[M]
C1253	ECUV1H103KBV	0.01 50V	[M]
C1260	ECA1HAK4R7XB	4.7 50V	[M]
C1261	ECA1HAK4R7XB	4.7 50V	[M]
C1280	ECUV1H221KBV	220P 50V	[M]
C1281	ECJ1VB1H331K	330P 50V	[M]
C1301	ECUV1H100JCV	10P 50V	[M]
C1302	ECUV1H103KBV	0.01 50V	[M]
C1303	ECUVNC104ZFV	0.1 16V	[M]
C1304	ECUV1H100JCV	10P 50V	[M]
C1305	ECUV1H103KBV	0.01 50V	[M]

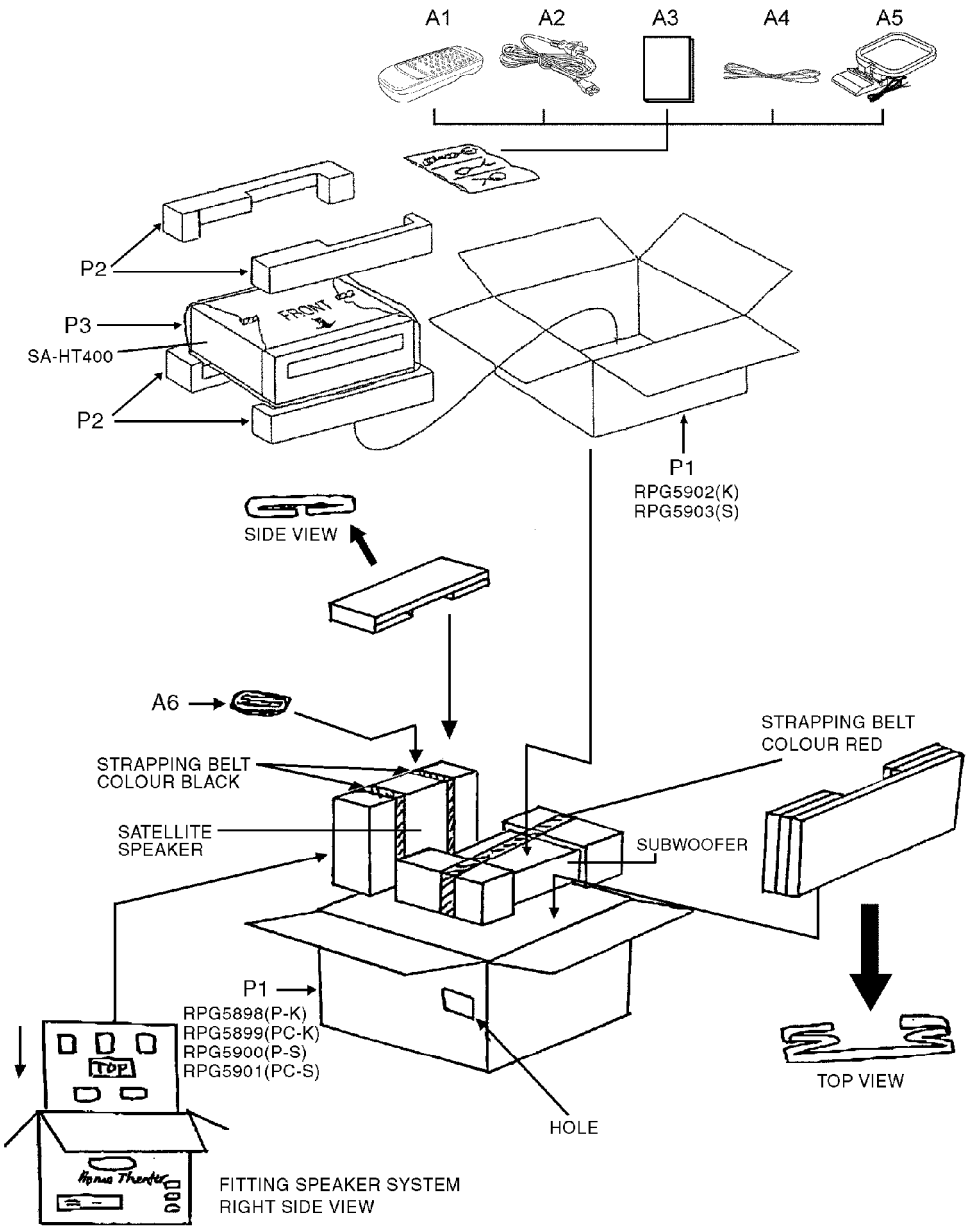
Ref. No.	Part No.	Part Name & Description	Remarks
C1306	ECUVNC104ZFV	0.1 16V	[M]
C1307	ECUV1H103KBV	0.01 50V	[M]
C1308	ECUVNC104ZFV	0.1 16V	[M]
C1309	ECUVNC104ZFV	0.1 16V	[M]
C1311	ECUVNC104ZFV	0.1 16V	[M]
C1312	ECUVNC104ZFV	0.1 16V	[M]
C1313	ECUV1H103KBV	0.01 50V	[M]
C1345	ECA1HAK4R7XB	4.7 50V	[M]
C1346	ECA1HAK4R7XB	4.7 50V	[M]
C1347	ECA1HAK4R7XB	4.7 50V	[M]
C1348	ECA1HAK4R7XB	4.7 50V	[M]
C1349	ECUV1H221KBV	220P 50V	[M]
C1350	ECUV1H221KBV	220P 50V	[M]
C1351	ECUV1H221KBV	220P 50V	[M]
C1352	ECUV1H221KBV	220P 50V	[M]
C1401	ECA1HAK4R7XB	4.7 50V	[M]
C1402	ECA1HAK4R7XB	4.7 50V	[M]
C1403	ECUV1H103KBV	0.01 50V	[M]
C1404	ECUV1H103KBV	0.01 50V	[M]
C1405	ECA1CAK330XB	33 16V	[M]
C1406	ECA1CAK330XB	33 16V	[M]
C1407	ECA1CAK330XB	33 16V	[M]
C1408	ECJ1VC1H101K	100P 50V	[M]
C1409	ECA1CAK330XB	33 16V	[M]
C1410	ECA1EAK470XB	47 25V	[M]
C1411	ECA1EAK470XB	47 25V	[M]
C1412	ECUVNC104ZFV	0.1 16V	[M]
C1413	ECUVNC104ZFV	0.1 16V	[M]
C1414	ECA1CAK330XB	33 16V	[M]
C1415	ECA1CAK330XB	33 16V	[M]
C1451	ECA1HAK4R7XB	4.7 50V	[M]
C1452	ECJ1VC1H470J	47 50V	[M]
C1453	ECJ1VC1H470J	47 50V	[M]
C1454	ECA1HAK4R7XB	4.7 50V	[M]
C1455	ECJ1VC1H151J	150P 50V	[M]
C1456	ECUV1H221KBV	220P 50V	[M]
C1457	ECA1CAK330XB	33 16V	[M]
C1458	ECA1CAK330XB	33 16V	[M]
C1459	ECJ1VC1H151J	150P 50V	[M]
C1460	ECUV1H221KBV	220P 50V	[M]
C1480	ECA1HAK4R7XB	4.7 50V	[M]
C1481	ECA1HAK4R7XB	4.7 50V	[M]
C1483	ECA1HAK4R7XB	4.7 50V	[M]
C1484	ECA1HAK4R7XB	4.7 50V	[M]
C1521	ECEA1CKN100B	10 16V	[M]
C1522	ECEA1CKN100B	10 16V	[M]
C1523	ECUV1H391JCV	390P 50V	[M]
C1524	ECA1CAK100XB	10 16V	[M]
C1525	ECJ1VC1H151J	150P 50V	[M]
C1526	ECA1CAK100XB	10 16V	[M]
C1527	ECA1CAK100XB	10 16V	[M]
C1528	ECUV1H103KBV	0.01 50V	[M]
C1529	ECEA1CKN100B	10 16V	[M]
C1530	ECEA1CKN100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1531	ECUV1H391JCV	390P 50V	[M]
C1532	ECA1CAK100XB	10 16V	[M]
C1533	ECJ1VC1H151J	150P 50V	[M]
C1681	ECBT1H103KB5	0.01 50V	[M]
C1682	ECBT1H103KB5	0.01 50V	[M]
C1685	ECBT1H103KB5	0.01 50V	[M]
C1701	ECA1CAK101XB	100 16V	[M]
C1702	ECA1AM332E	3300 10V	[M] ⚠
C1703	ECUV1H103KBV	0.01 50V	[M]
C1704	ECA1CAK100XB	10 16V	[M]
C1705	ECA1CAK220XB	22 16V	[M]
C1706	ECUV1H391JCV	390P 50V	[M]
C1801	ECUVNC104ZFV	0.1 16V	[M]
C1802	ECUVNC104ZFV	0.1 16V	[M]
C1909	ECJ1VB1H472K	4700P 50V	[M]
C1910	ECUVNC104ZFV	0.1 16V	[M]
C1911	ECJ1VB1H102K	1000P 50V	[M]

15.3. Packing Materials & Accessories Parts List

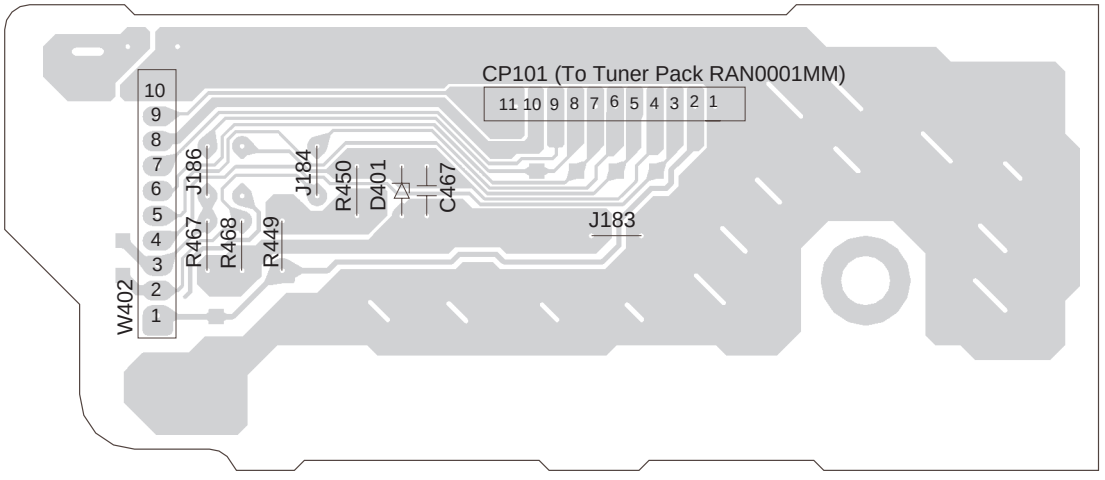
Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG5898	PACKING CASE	[M]P-K
P1	RPG5899	PACKING CASE	[M]PC-K
P1	RPG5900	PACKING CASE	[M]P-S
P1	RPG5901	PACKING CASE	[M]PC-S
P1	RPG5902	PACKING CASE	[M]
P1	RPG5903	PACKING CASE	[M]
P2	RPN1384	POLYFOAM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7702KE0	REMOTE CONTROL	[M]
A1-1	UR64EC2337D	R/C BATTERY COVER	[M]
A2	RJA0065-A	AC CORD	[M] ⚠
A3	RQT6201-P	O/I BOOK	[M]
A3	RQT6202-C	O/I BOOK	[M]PC
A3	RQT6361-P	O/I BOOK	[M]
A3	RQT6362-C	O/I BOOK	[M]PC
A4	RSA0006-L	FM ANTENNA WIRE	[M]
A5	N1DAEYA00006	AM LOOP ANTENNA	[M]
A6	REE0970A	SPEAKER CORD	[M]
A7	RFA0631A-K	RUBBER FOOT	[M]

15.4. Packaging

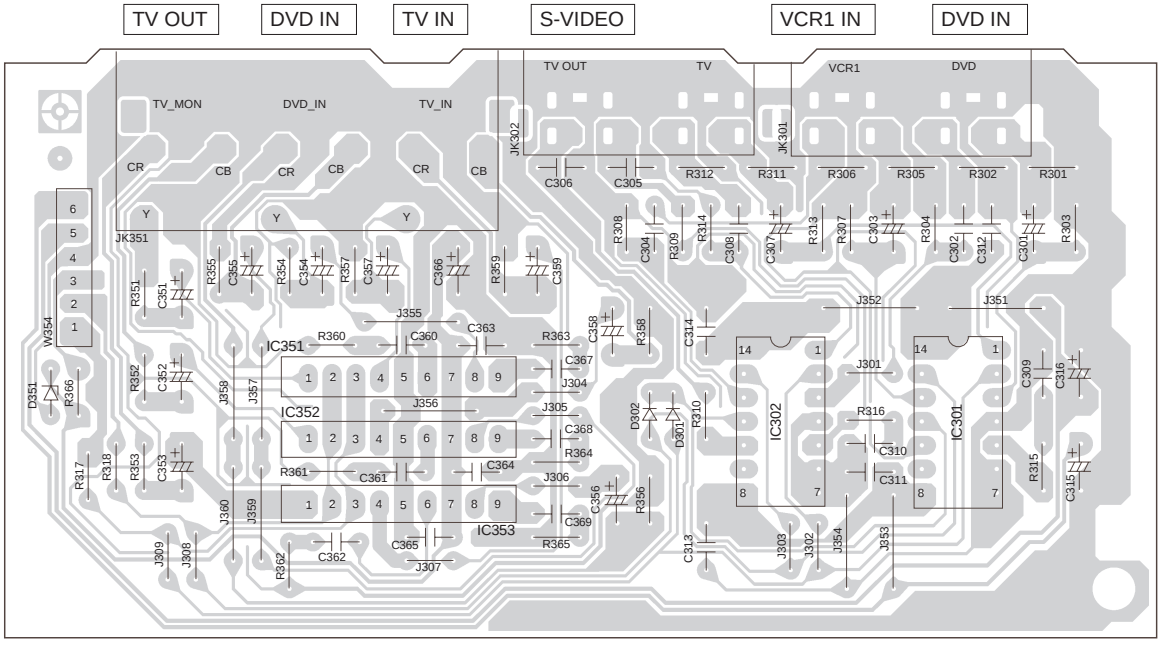


/ Printed in Singapore / M020300001 FLE/C/J/D/N/S/A

E PHONO EQ P.C.B (REP3351A-S)



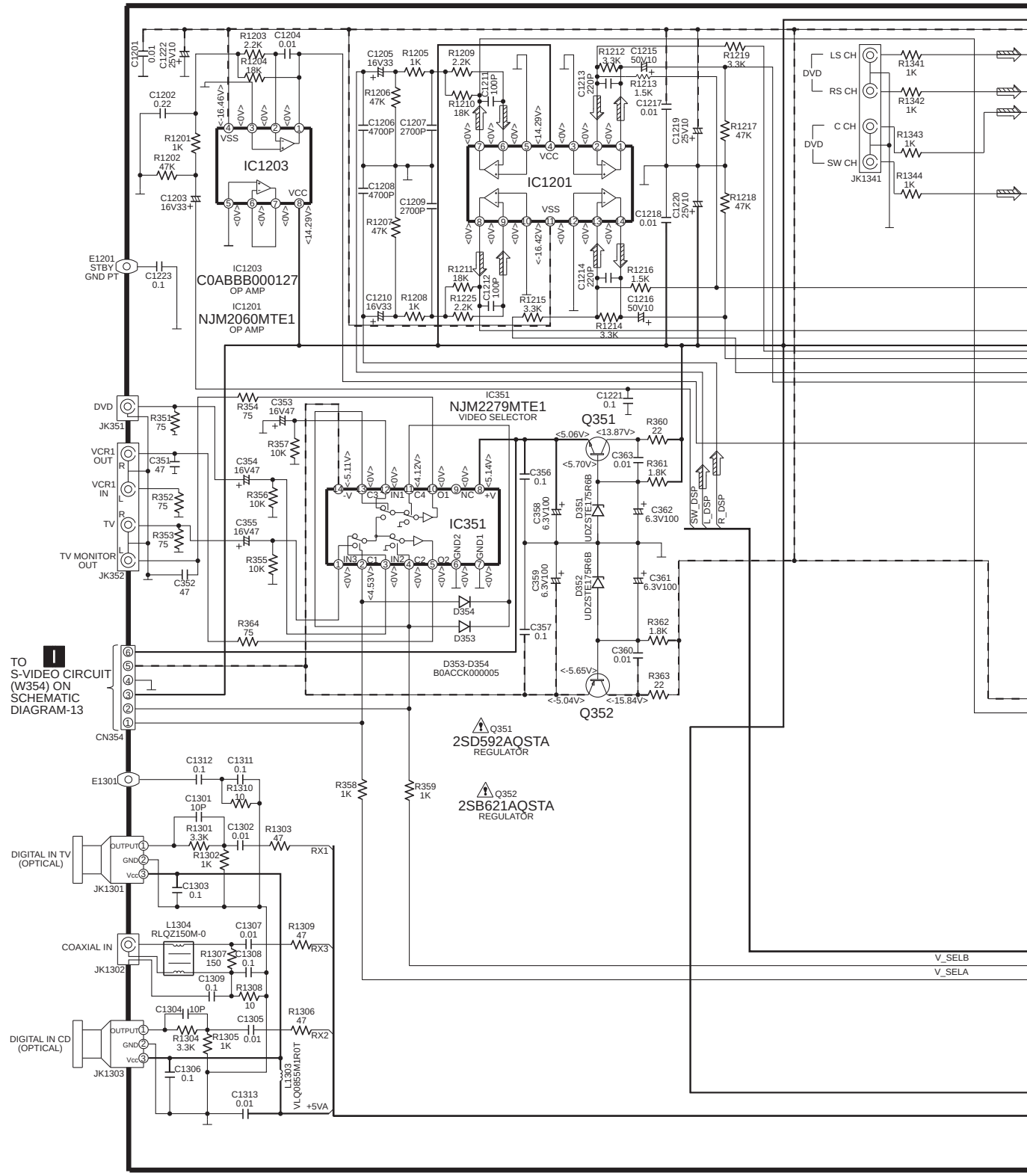
I VIDEO P.C.B (REP3352A-T)



SCHEMATIC DIAGRAM - 1

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

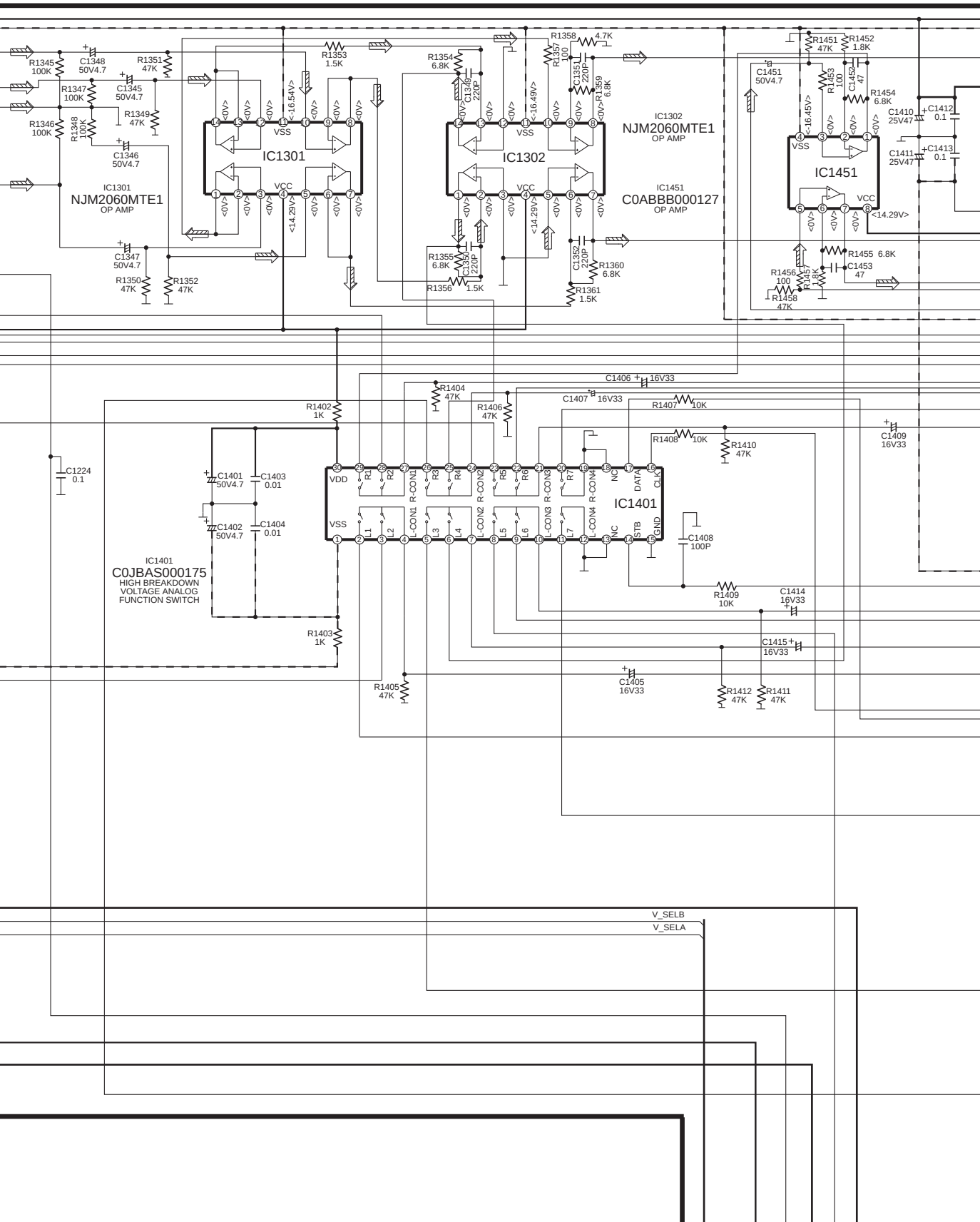
A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

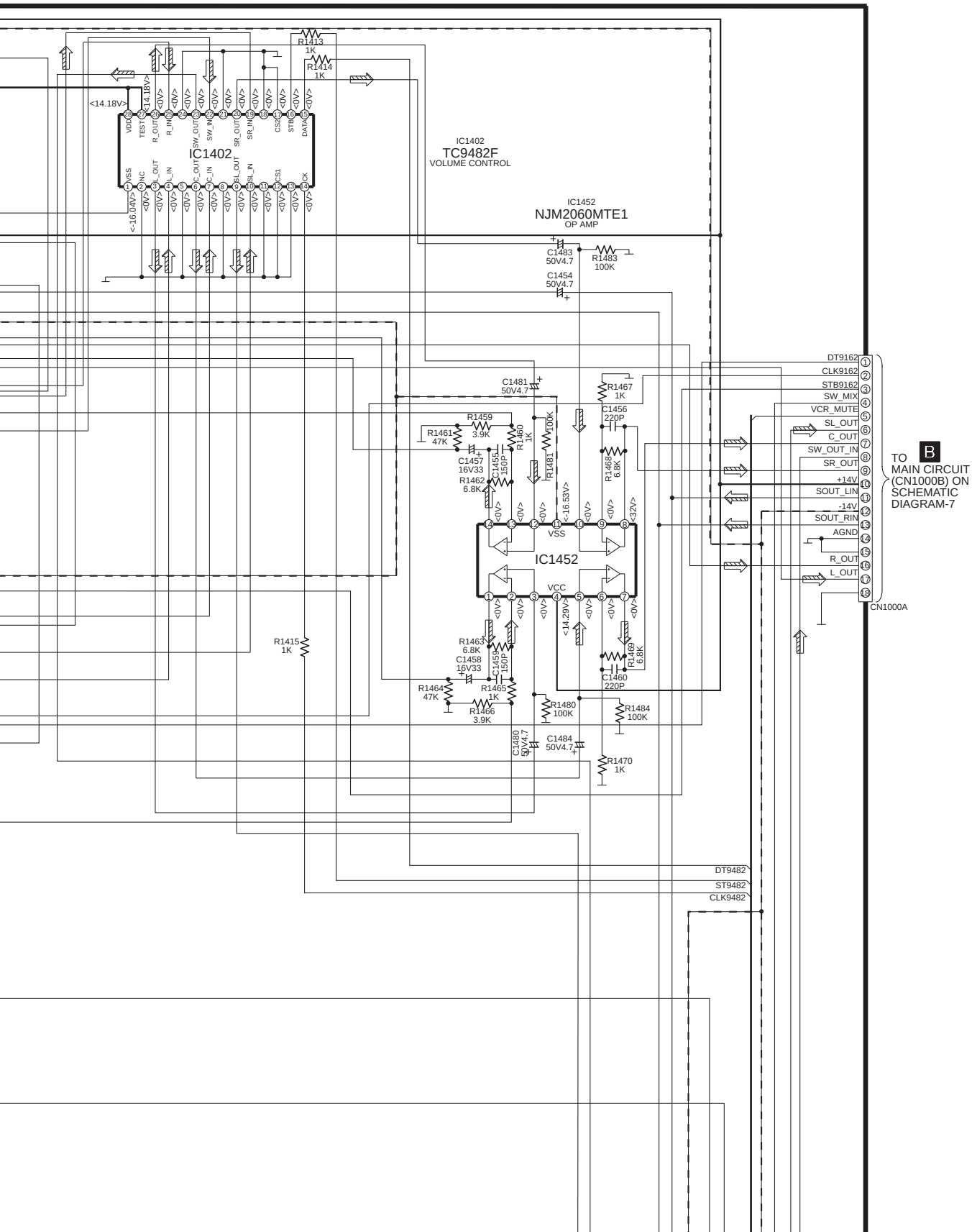
A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 3

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇒ : MAIN SIGNAL LINE

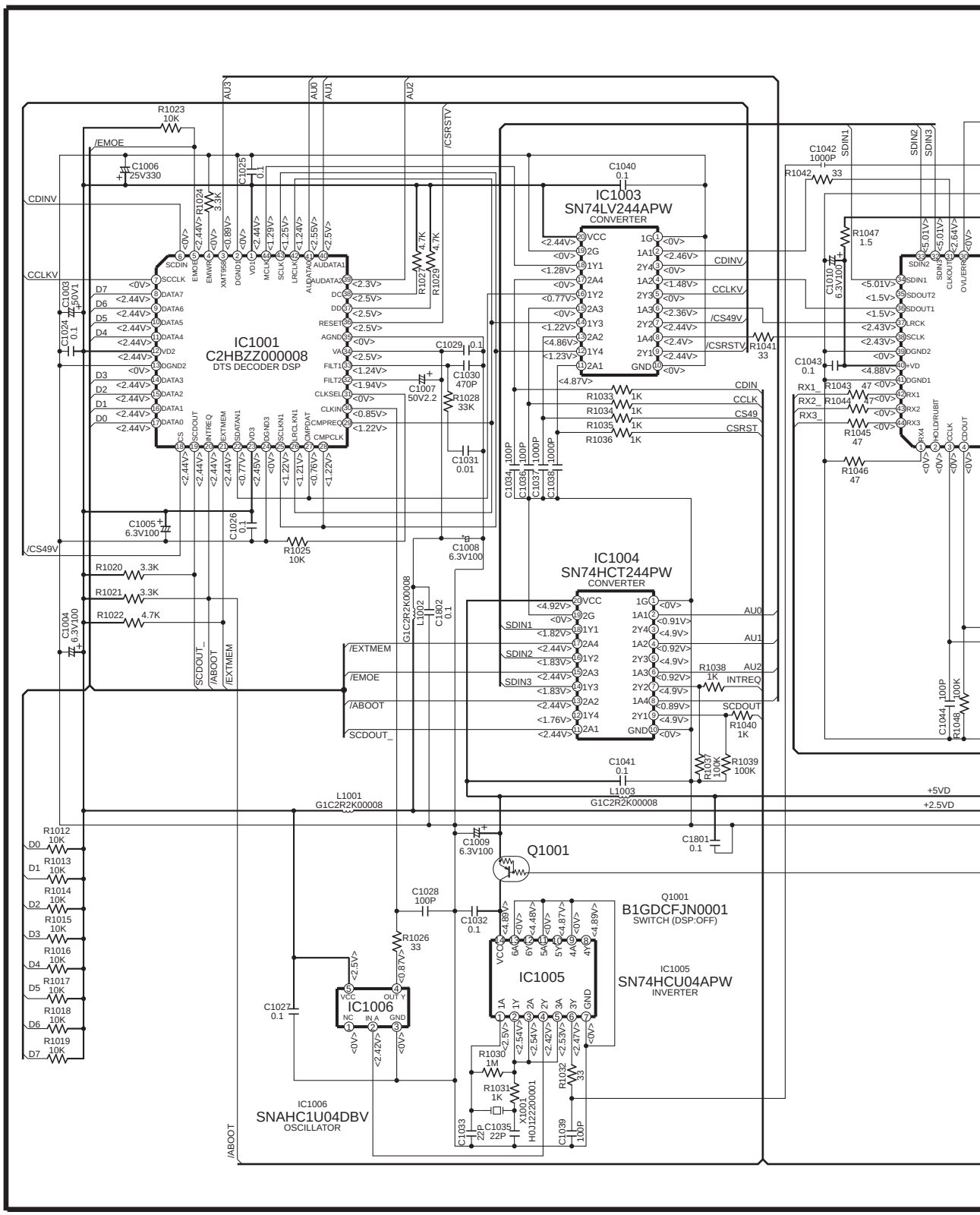
A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 4

—— : +B SIGNAL LINE

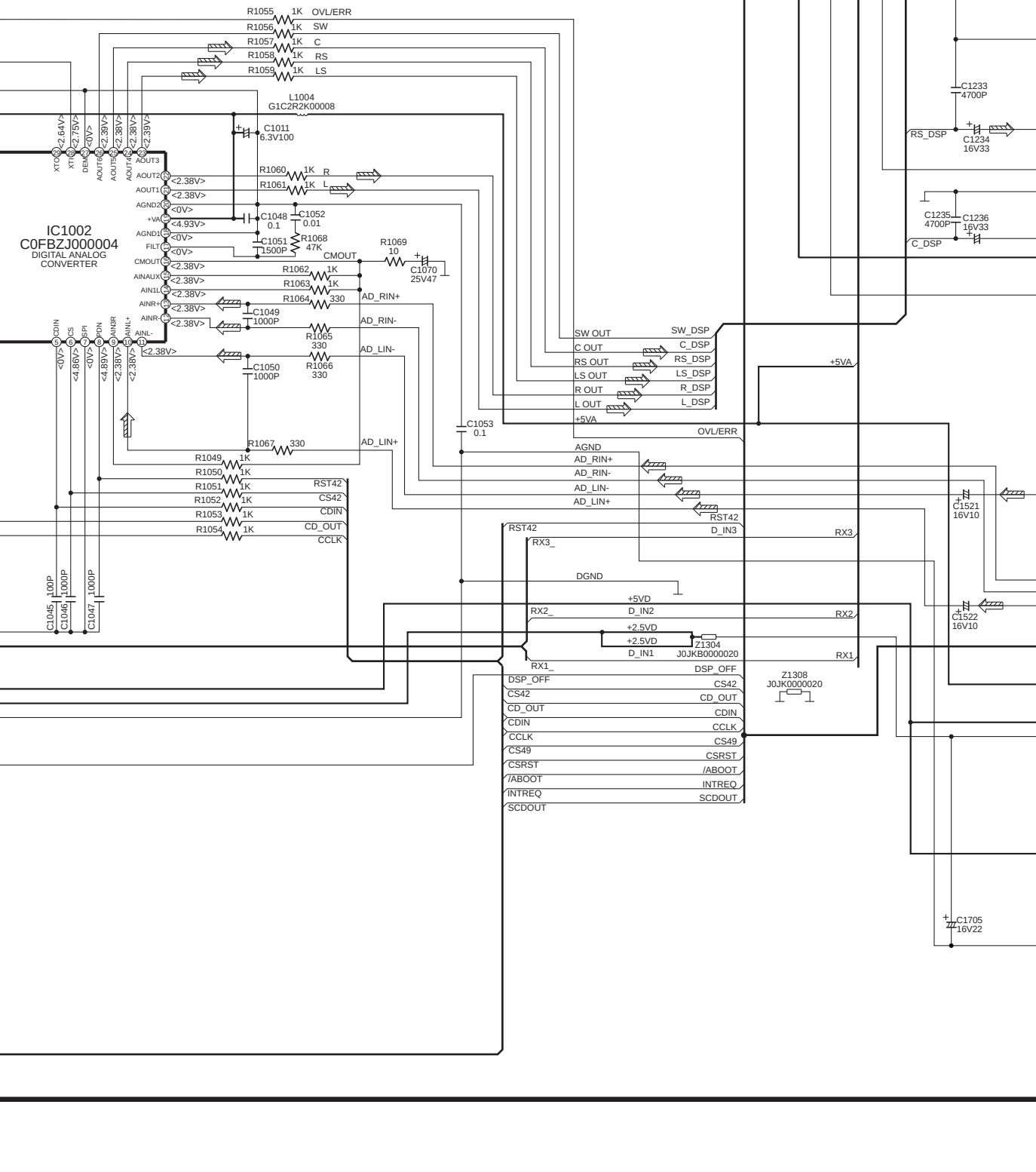
A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 5

— : +B SIGNAL LINE ⇒ : MAIN SIGNAL LINE

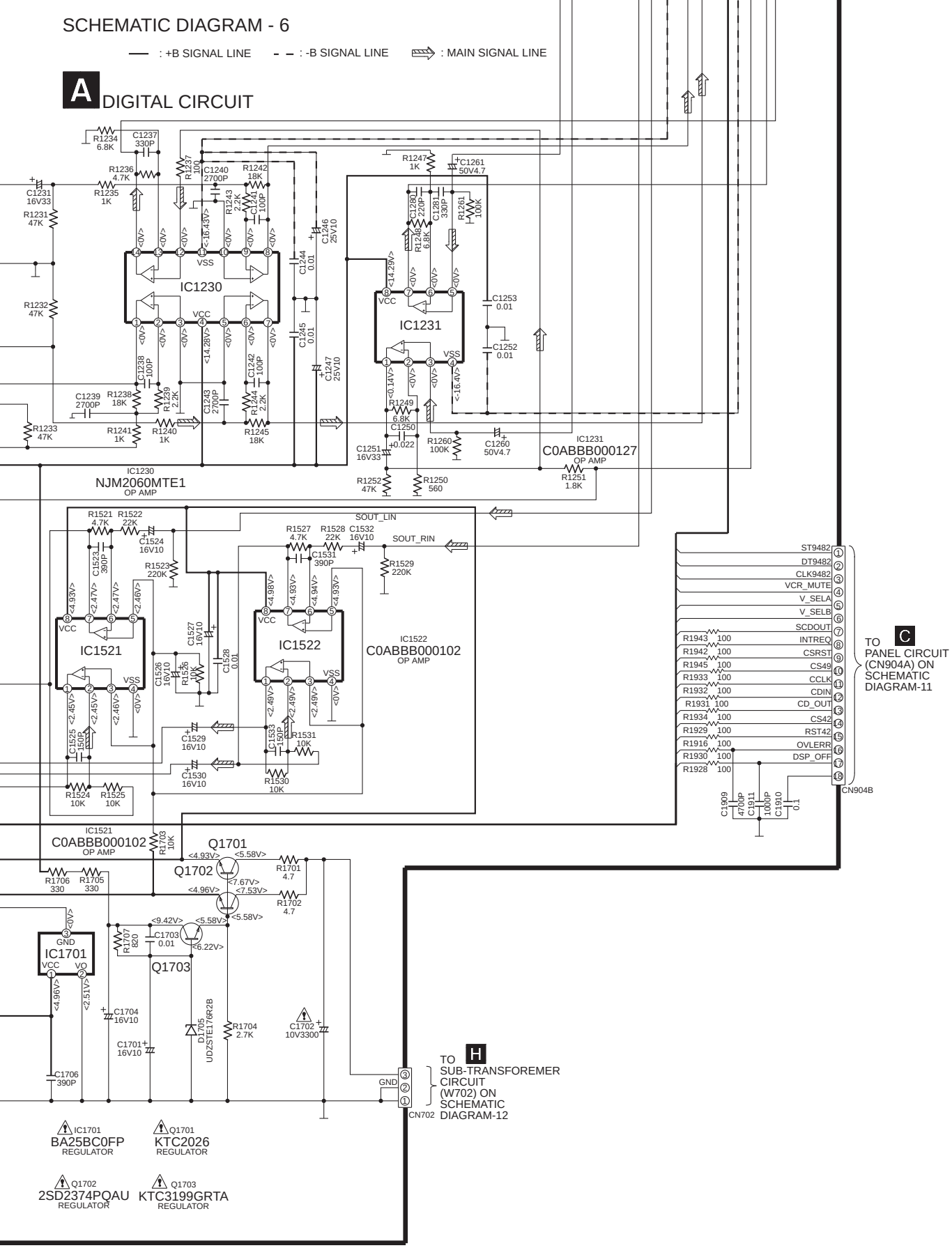
A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 6

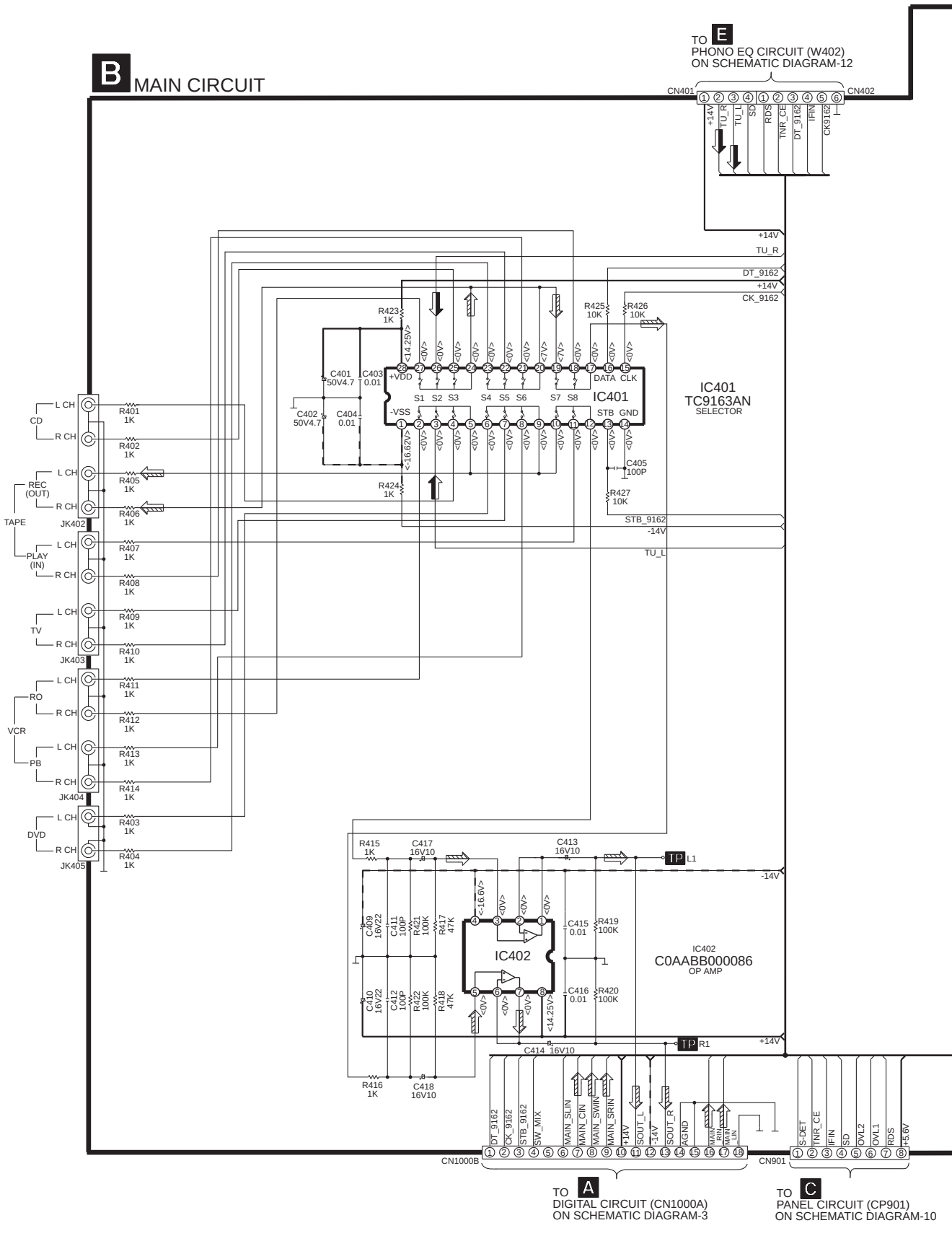
—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇒ : MAIN SIGNAL LINE

A DIGITAL CIRCUIT



SCHEMATIC DIAGRAM - 7

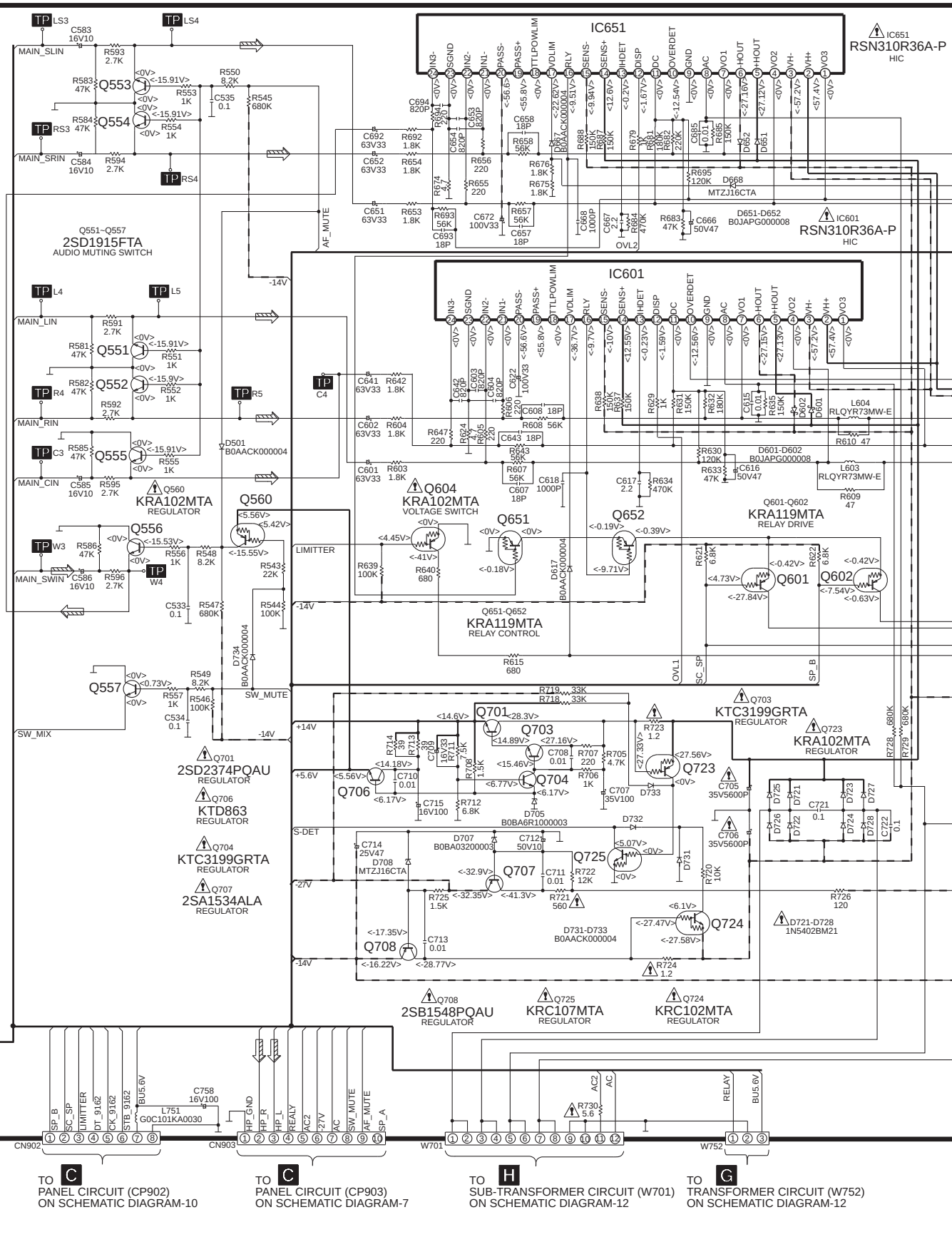
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE ⇒ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 8

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT



TO C
PANEL CIRCUIT (CP902)
ON SCHEMATIC DIAGRAM-10

TO C
PANEL CIRCUIT (CP903)
ON SCHEMATIC DIAGRAM-7

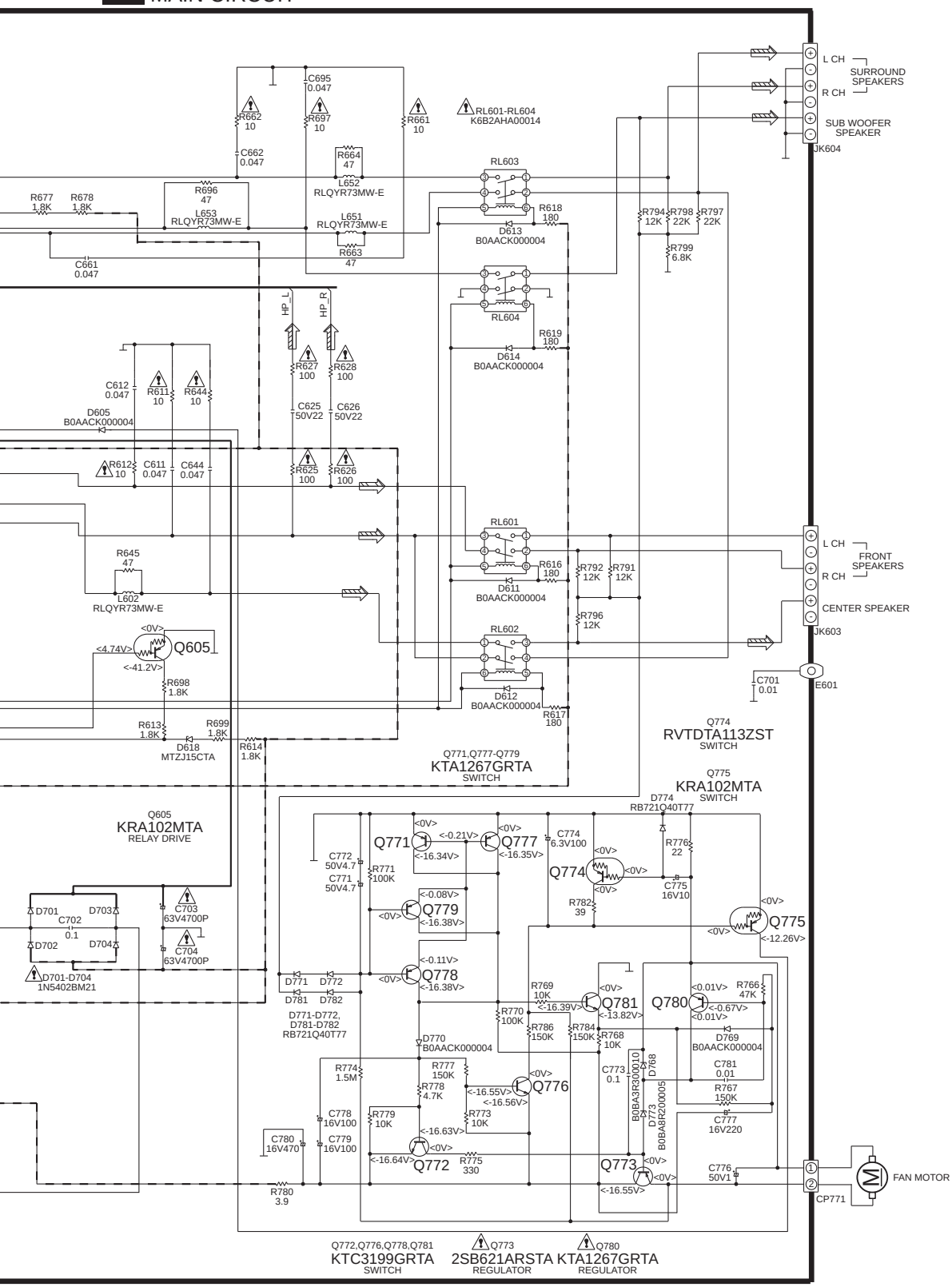
TO H
SUB-TRANSFORMER CIRCUIT (W701)
ON SCHEMATIC DIAGRAM-12

TO G
TRANSFORMER CIRCUIT (W752)
ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 9

—— : +B SIGNAL LINE - – : -B SIGNAL LINE ⇒ : MAIN SIGNAL LINE

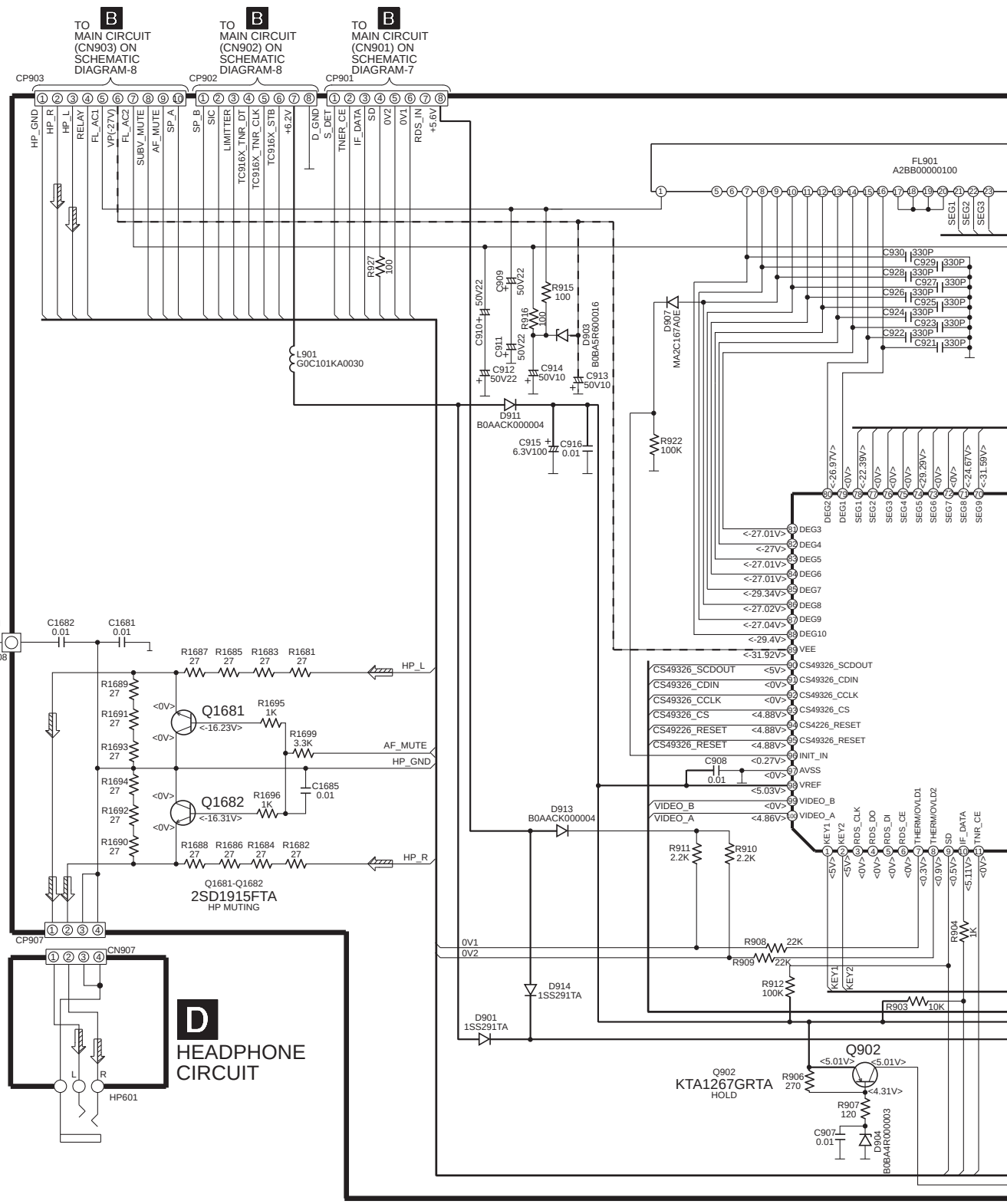
B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 10

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE

C PANEL CIRCUIT

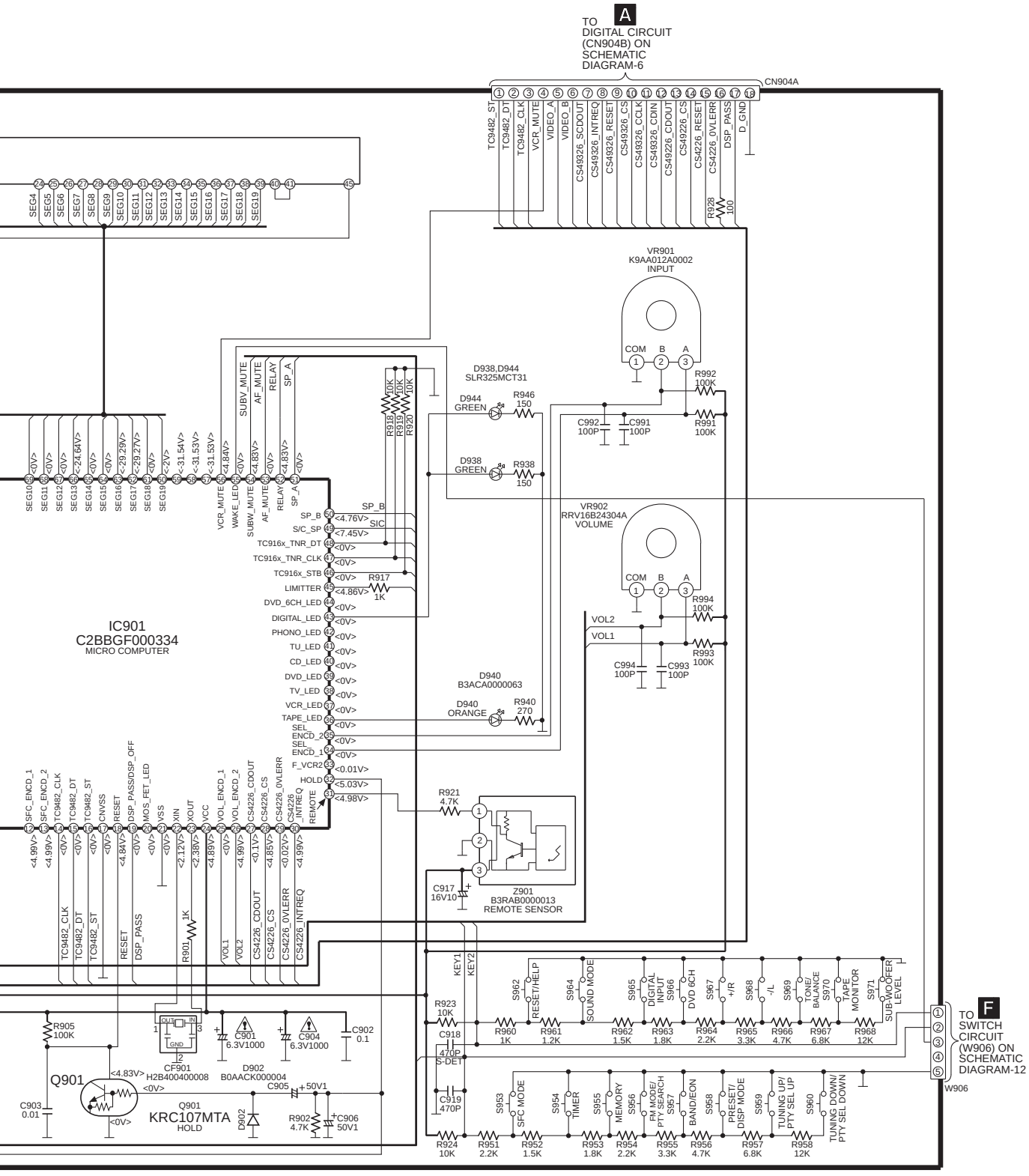


D HEADPHONE CIRCUIT

SCHEMATIC DIAGRAM - 11

C PANEL CIRCUIT

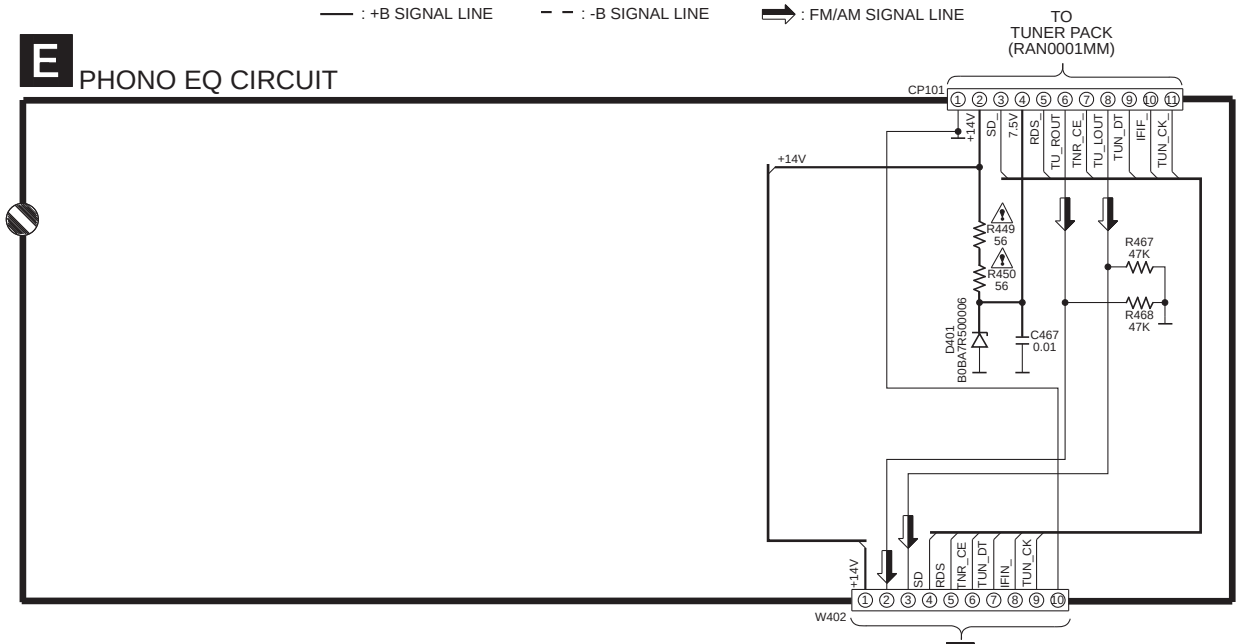
— : +B SIGNAL LINE



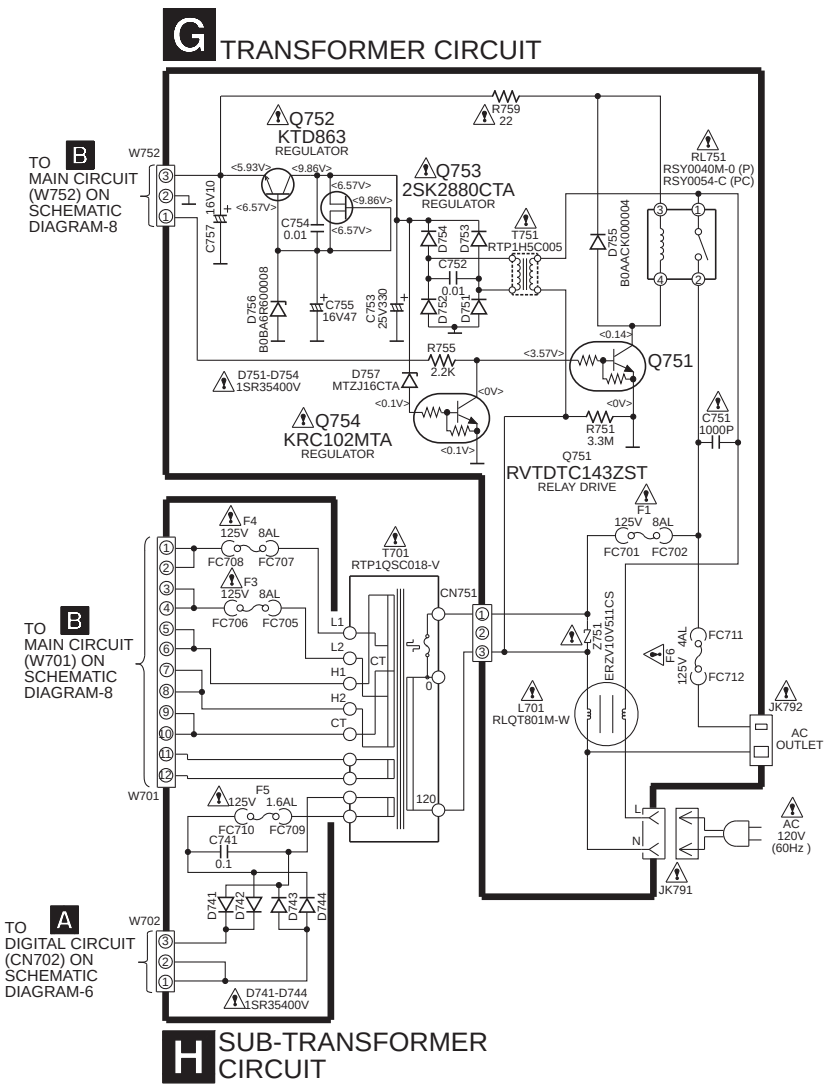
SCHEMATIC DIAGRAM - 12

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : FM/AM SIGNAL LINE

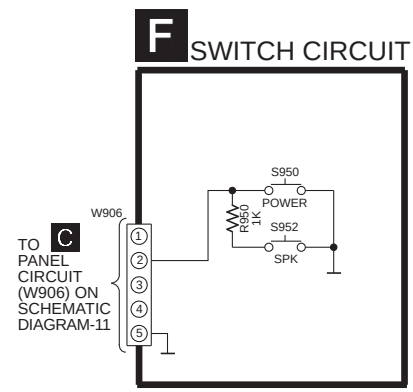
E PHONO EQ CIRCUIT



G TRANSFORMER CIRCUIT



F SWITCH CIRCUIT



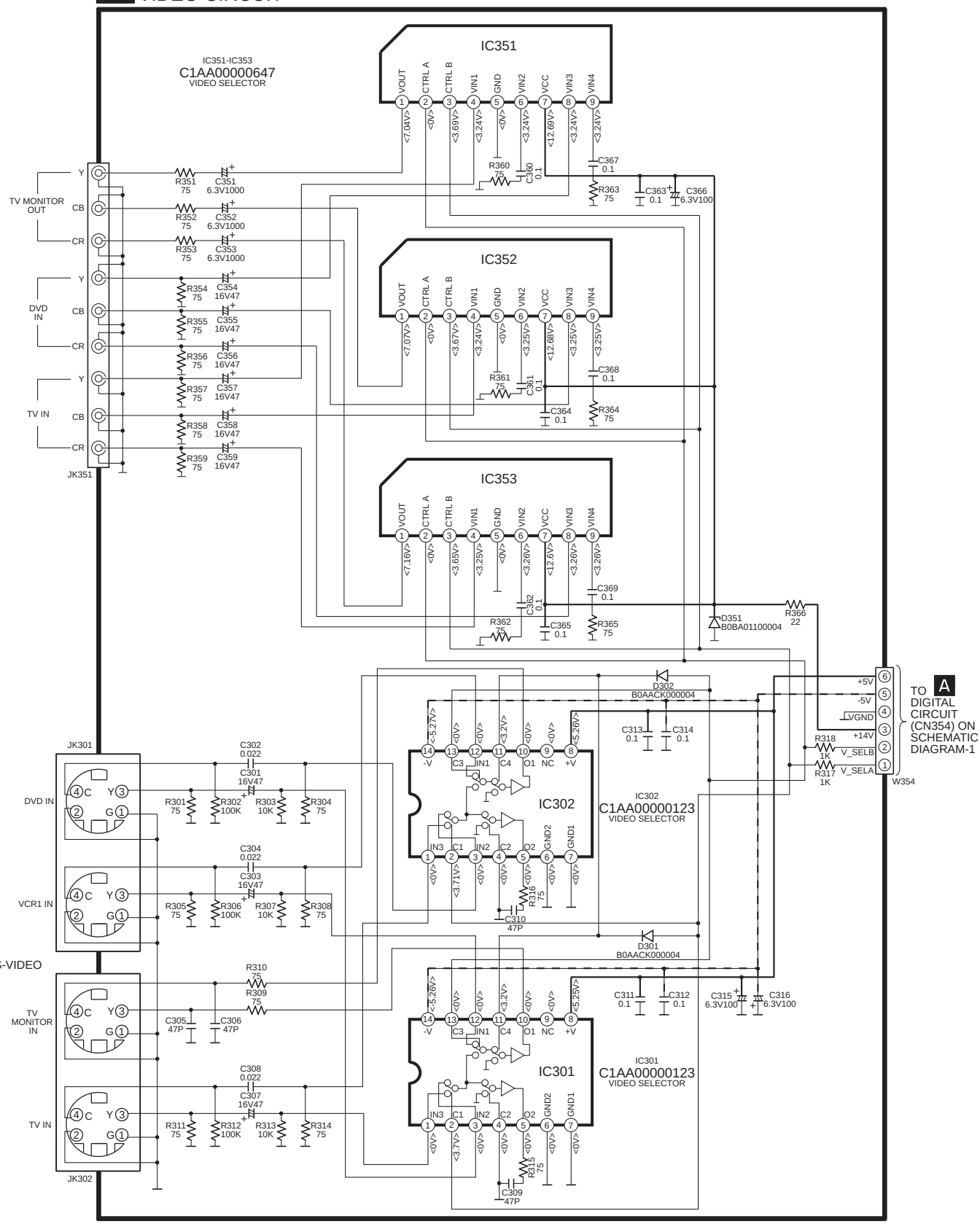
H SUB-TRANSFORMER CIRCUIT

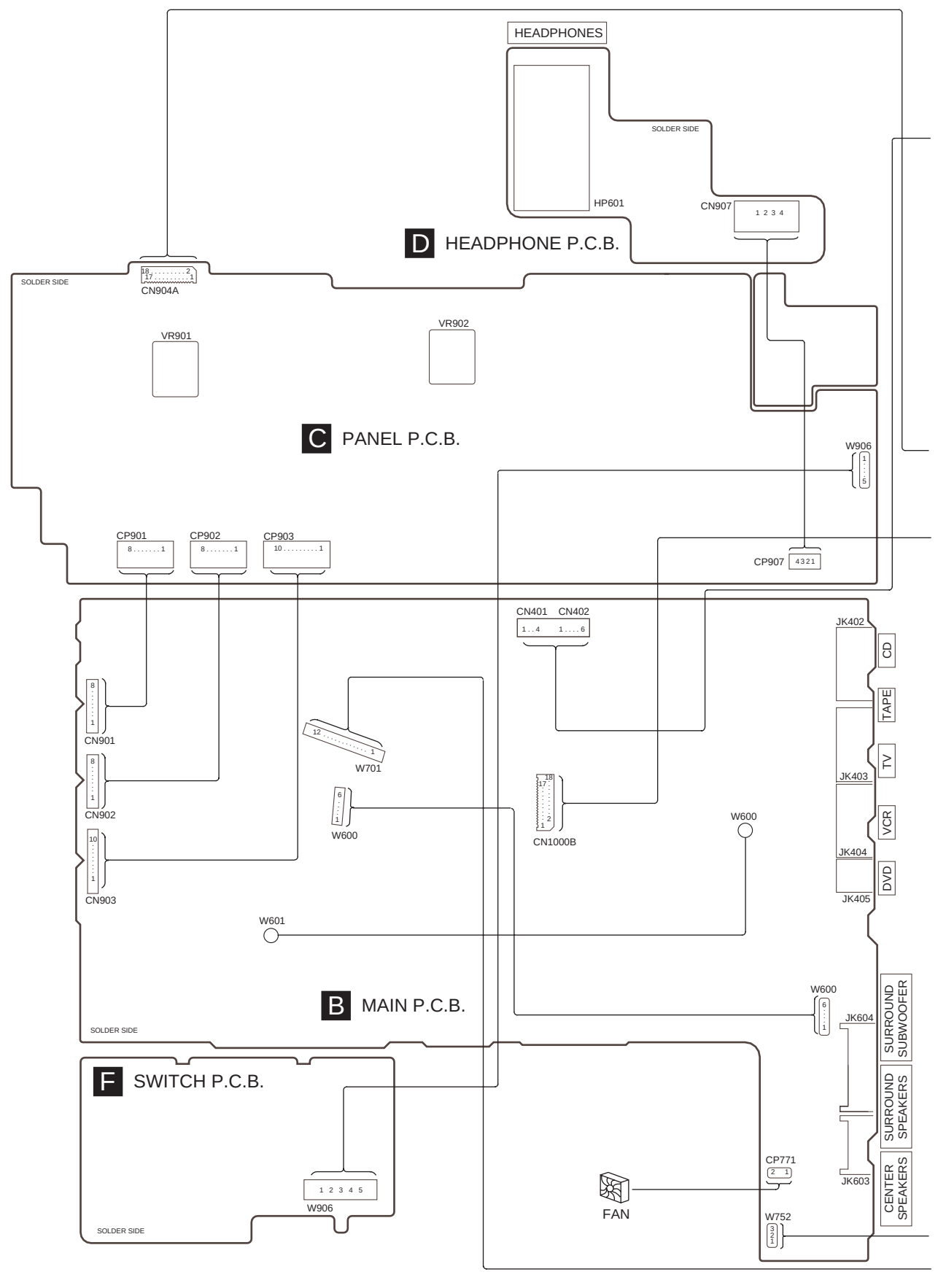
SCHEMATIC DIAGRAM-13

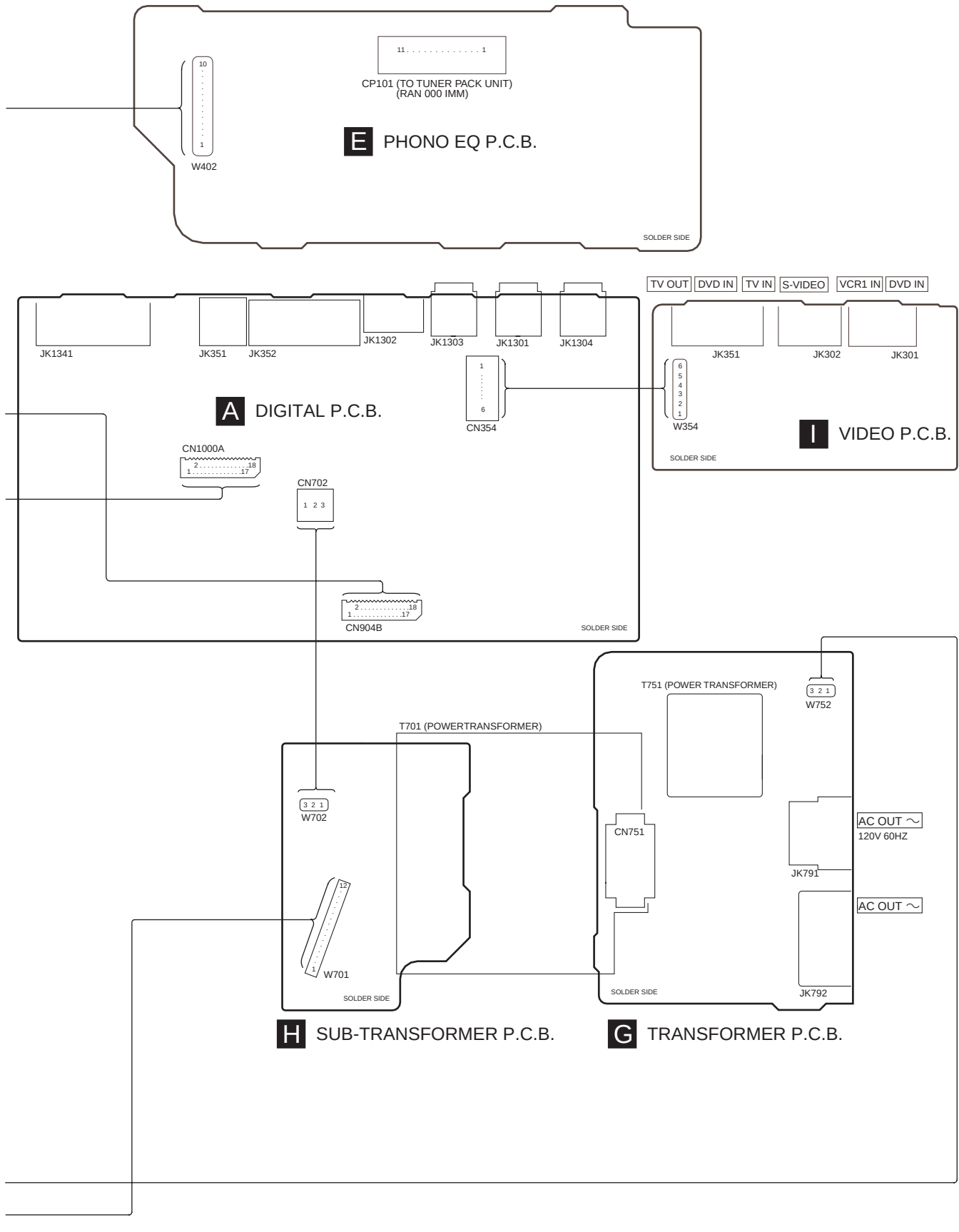
I VIDEO CIRCUIT

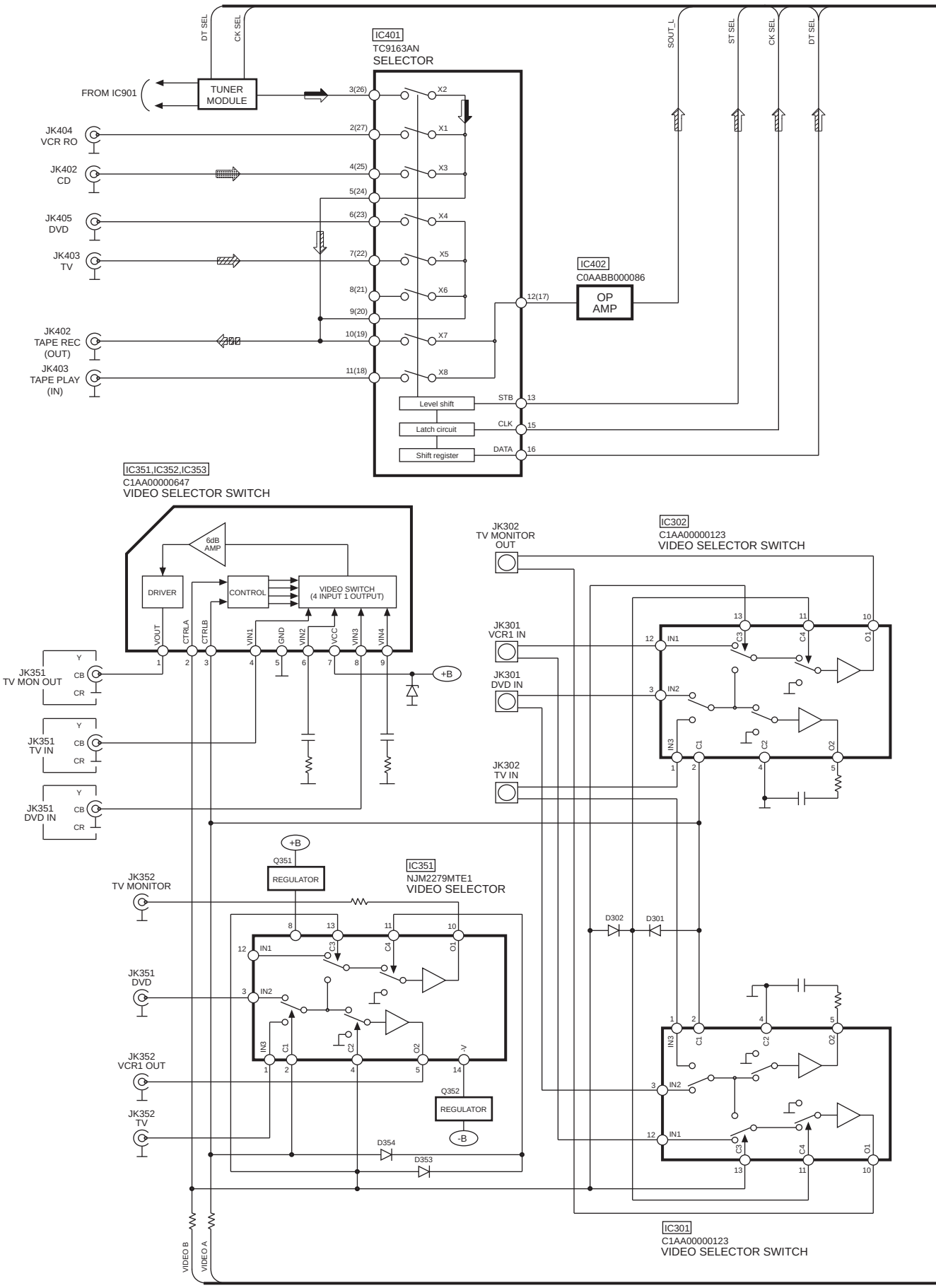
——— : +B SIGNAL LINE

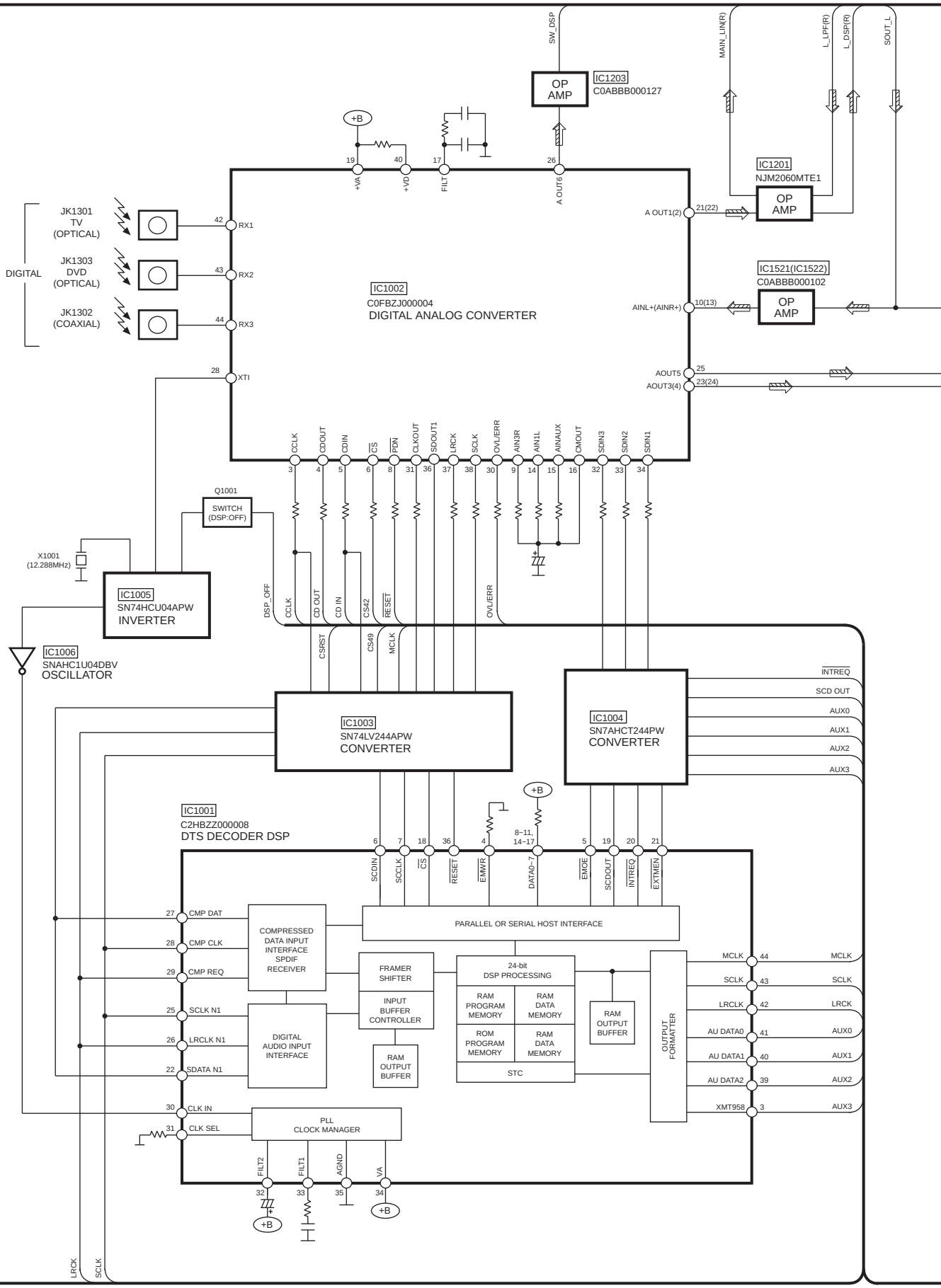
– – – · : -B SIGNAL LINE

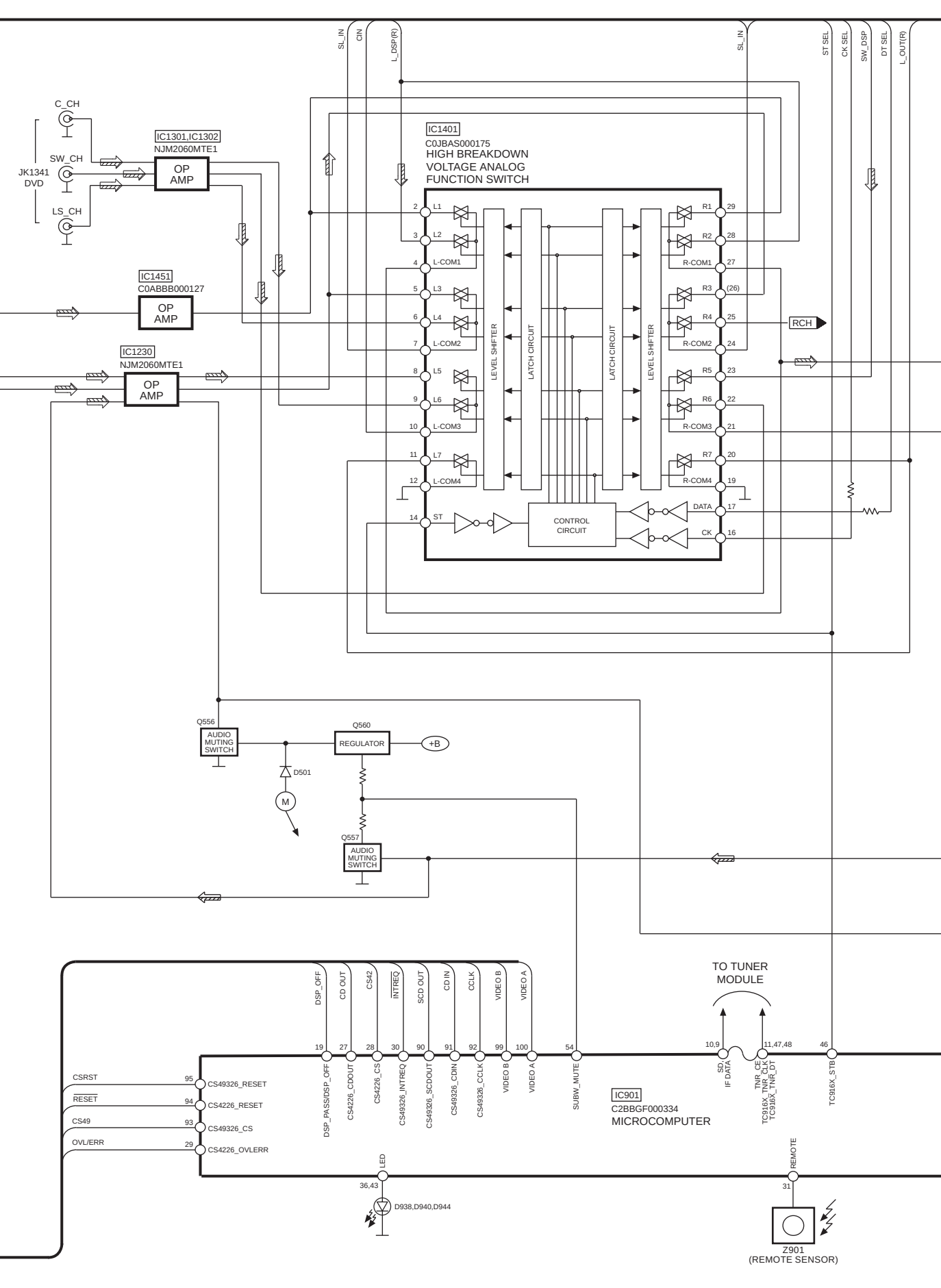


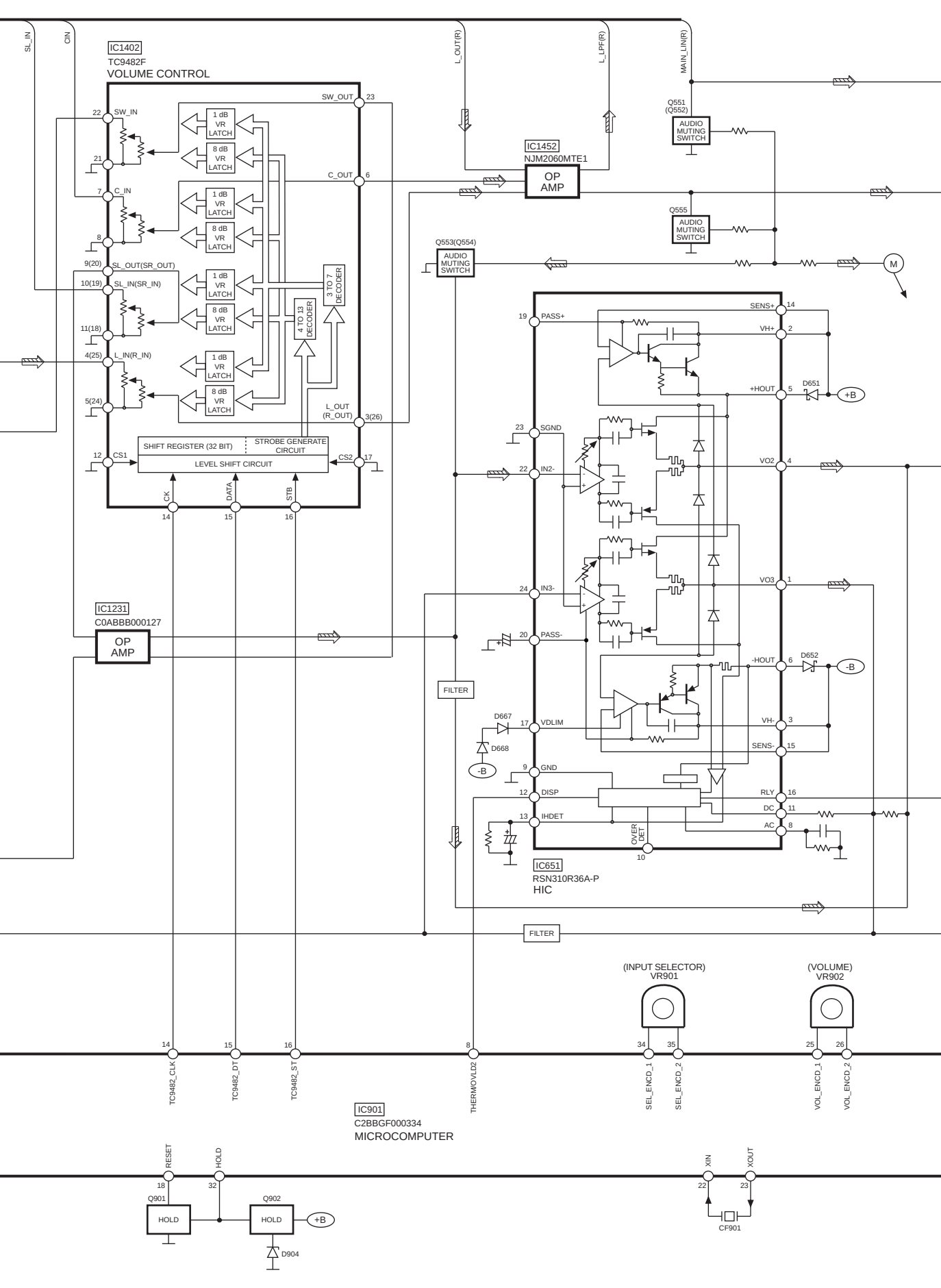

HEADPHONES
SOLDER SIDE
HP601
CN907
1 2 3 4
D HEADPHONE P.C.B.
SOLDER SIDE
18 2
17 1
CN904A
VR901
VR902
C PANEL P.C.B.
W906
1 . . 5
CP901
8 1
CP902
8 1
CP903
10 1
CP907
4321
CN401
1 . . 4
CN402
1 6
JK402
CD
TAPE
JK403
TV
VCR
JK404
DVD
JK405
8 . . . 1
CN901
8 . . . 1
CN902
10 . . . 1
CN903
12 1
W701
6 . . 1
W600
18 2
17 1
CN1000B
W600
W601
B MAIN P.C.B.
SOLDER SIDE
W600
6 . . 1
JK604
SURROUND SUBWOOFER
SURROUND SPEAKERS
CENTER SPEAKERS
JK603
F SWITCH P.C.B.
1 2 3 4 5
W906
SOLDER SIDE
CP771
2 1
FAN
W752
3 2 1

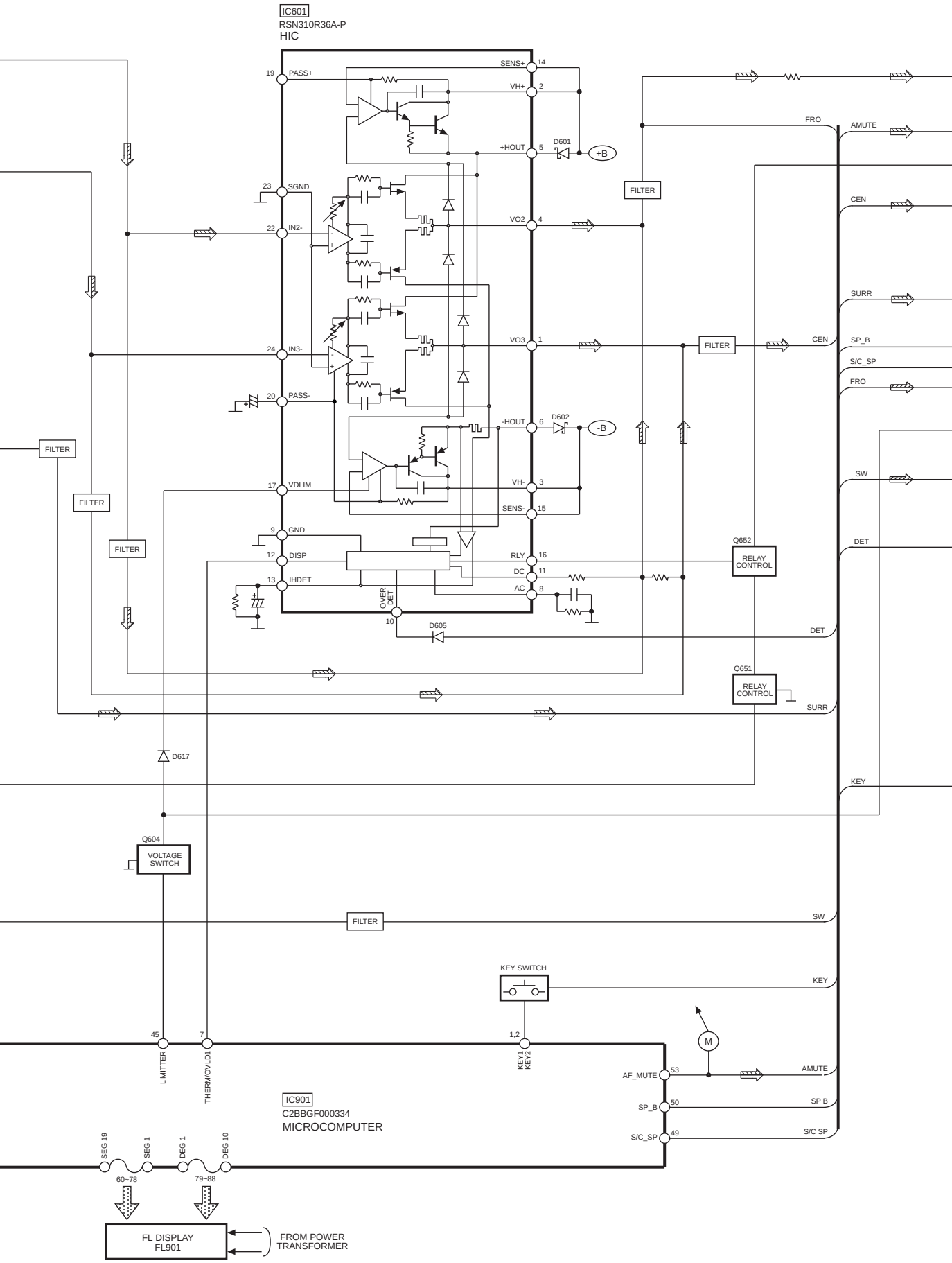

11 1
CP101 (TO TUNER PACK UNIT)
(RAN 000 IMM)
10 1
W402
E PHONO EQ P.C.B.
SOLDER SIDE
JK1341
JK351
JK352
JK1302
JK1303
JK1301
JK1304
A DIGITAL P.C.B.
CN354
CN1000A
2 18
1 17
CN702
1 2 3
CN904B
SOLDER SIDE
TV OUT
DVD IN
TV IN
S-VIDEO
VCR1 IN
DVD IN
JK351
JK302
JK301
6 5 4 3 2 1
W354
I VIDEO P.C.B.
SOLDER SIDE
T751 (POWER TRANSFORMER)
3 2 1
W752
T701 (POWERTRANSFORMER)
3 2 1
W702
CN751
AC OUT ~
120V 60HZ
JK791
AC OUT ~
12 1
W701
SOLDER SIDE
SOLDER SIDE
JK792
H SUB-TRANSFORMER P.C.B.
G TRANSFORMER P.C.B.

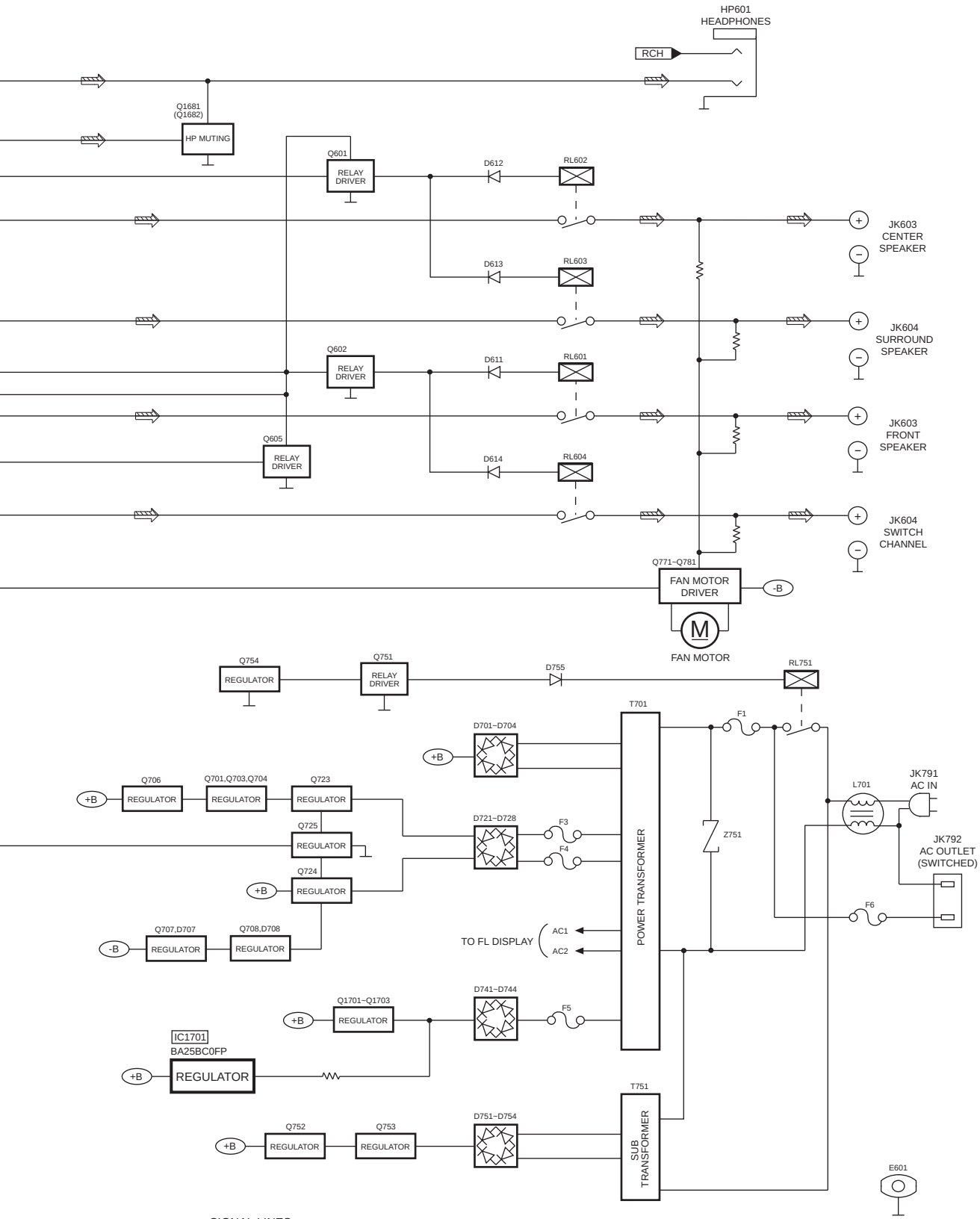

IC401
TC9163AN
SELECTOR
DT SEL
CK SEL
SOUT_L
ST SEL
CK SEL
DT SEL
FROM IC901
TUNER MODULE
JK404 VCR RO
JK402 CD
JK405 DVD
JK403 TV
JK402 TAPE REC (OUT)
JK403 TAPE PLAY (IN)
3(26)
2(27)
4(25)
5(24)
6(23)
7(22)
8(21)
9(20)
10(19)
11(18)
X1
X2
X3
X4
X5
X6
X7
X8
12(17)
IC402
C0AABB000086
OP AMP
Level shift
Latch circuit
Shift register
STB
CLK
DATA
13
15
16
IC351,IC352,IC353
C1AA00000647
VIDEO SELECTOR SWITCH
6dB AMP
DRIVER
CONTROL
VIDEO SWITCH (4 INPUT 1 OUTPUT)
VOUT
CTRLA
CTRLB
VIN1
GND
VIN2
VCC
VIN3
VIN4
JK351 TV MON OUT
JK351 TV IN
JK351 DVD IN
Y
CB
CR
+B
JK302 TV MONITOR OUT
IC302
C1AA00000123
VIDEO SELECTOR SWITCH
JK301 VCR1 IN
JK301 DVD IN
JK302 TV IN
IN1
IN2
IN3
C1
C2
C3
C4
O1
O2
Q351
REGULATOR
IC351
NJM2279MTE1
VIDEO SELECTOR
JK352 TV MONITOR
JK351 DVD
JK352 VCR1 OUT
JK352 TV
-V
Q352
REGULATOR
-B
D354
D353
D302
D301
VIDEO B
VIDEO A
IC301
C1AA00000123
VIDEO SELECTOR SWITCH


SW_DSP
IC1203
OP AMP
C0ABBB000127
MAIN_LIN(R)
L_LPF(R)
L_DSP(R)
SOUT_L
+B
19 +VA
40 +VD
17 FILT
26 A OUT6
IC1201
NJM2060MTE1
OP AMP
A OUT1(2) 21(22)
DIGITAL
JK1301 TV (OPTICAL)
JK1303 DVD (OPTICAL)
JK1302 (COAXIAL)
42 RX1
43 RX2
44 RX3
28 XTI
IC1002
C0FBZJ000004
DIGITAL ANALOG CONVERTER
IC1521(IC1522)
C0ABBB000102
OP AMP
AINL+(AINR+) 10(13)
AOUT5 25
AOUT3(4) 23(24)
CCLK 3
CDOUT 4
CDIN 5
CS 6
PDN 8
CLKOUT 31
SDOUT1 36
LRCK 37
SCLK 38
OVL/ERR 30
AIN3R 9
AIN1L 14
AINAUX 15
CMOUT 16
SDIN3 32
SDIN2 33
SDIN1 34
Q1001
SWITCH (DSP:OFF)
X1001 (12.288MHz)
IC1005
SN74HCU04APW
INVERTER
IC1006
SNAHC1U04DBV
OSCILLATOR
DSP_OFF
CCLK
CD OUT
CD IN
CS42
RESET
OVL/ERR
CSRST
CS49
MCLK
IC1003
SN74LV244APW
CONVERTER
IC1004
SN7AHCT244PW
CONVERTER
INTREQ
SCD OUT
AUX0
AUX1
AUX2
AUX3
IC1001
C2HBZZ000008
DTS DECODER DSP
+B
6 SCDIN
7 SCCLK
18 CS
36 RESET
4 EMWR
8–11, 14–17 DATA0–7
5 EMOE
19 SCDOUT
20 INTREQ
21 EXTMEN
27 CMP DAT
28 CMP CLK
29 CMP REQ
25 SCLK N1
26 LRCLK N1
22 SDATA N1
30 CLK IN
31 CLK SEL
COMPRESSED DATA INPUT INTERFACE SPDIF RECEIVER
DIGITAL AUDIO INPUT INTERFACE
PARALLEL OR SERIAL HOST INTERFACE
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
RAM OUTPUT BUFFER
24-bit DSP PROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
RAM DATA MEMORY
STC
RAM OUTPUT BUFFER
OUTPUT FORMATTER
PLL CLOCK MANAGER
FILT2 32
FILT1 33
AGND 35
VA 34
MCLK 44
SCLK 43
LRCK 42
AU DATA0 41
AU DATA1 40
AU DATA2 39
XMT958 3
LRCK
SCLK


SL_IN
CIN
L_DSP(R)
SL_IN
ST SEL
CK SEL
SW_DSP
DT SEL
L_OUT(R)
C_CH
SW_CH
LS_CH
JK1341
DVD
IC1301,IC1302
NJM2060MTE1
OP AMP
IC1451
C0ABBB000127
OP AMP
IC1230
NJM2060MTE1
OP AMP
IC1401
C0JBAS000175
HIGH BREAKDOWN VOLTAGE ANALOG FUNCTION SWITCH
L1
L2
L-COM1
L3
L4
L-COM2
L5
L6
L-COM3
L7
L-COM4
ST
LEVEL SHIFTER
LATCH CIRCUIT
LATCH CIRCUIT
LEVEL SHIFTER
CONTROL CIRCUIT
R1
R2
R-COM1
R3
R4
R-COM2
R5
R6
R-COM3
R7
R-COM4
DATA
CK
RCH
Q556
AUDIO MUTING SWITCH
Q560
REGULATOR
+B
D501
M
Q557
AUDIO MUTING SWITCH
TO TUNER MODULE
DSP_OFF
CD OUT
CS42
INTREQ
SCD OUT
CD IN
CCLK
VIDEO B
VIDEO A
SUBW_MUTE
SDA IF DATA
TNR_CE TC916X_TNR_CLK TC916X_TNR_DT
TC916X_STB
CSRST
RESET
CS49
OVL/ERR
CS49326_RESET
CS4226_RESET
CS49326_CS
CS4226_OVLERR
DSP_PASS/DSP_OFF
CS4226_CDOUT
CS4226_CS
CS49326_INTREQ
CS49326_SCDOUT
CS49326_CDIN
CS49326_CCLK
VIDEO B
VIDEO A
SUBW_MUTE
IC901
C2BBGF000334
MICROCOMPUTER
LED
D938,D940,D944
REMOTE
Z901
(REMOTE SENSOR)


SL_IN
CIN
IC1402
TC9482F
VOLUME CONTROL
SW_OUT
SW_IN
C_OUT
C_IN
SL_OUT(SR_OUT)
SL_IN(SR_IN)
L_IN(R_IN)
L_OUT (R_OUT)
1 dB VR LATCH
8 dB VR LATCH
3 TO 7 DECODER
4 TO 13 DECODER
SHIFT REGISTER (32 BIT)
STROBE GENERATE CIRCUIT
LEVEL SHIFT CIRCUIT
CS1
CS2
CK
DATA
STB
L_OUT(R)
L_LPF(R)
MAIN_LIN(R)
Q551 (Q552)
AUDIO MUTING SWITCH
IC1452
NJM2060MTE1
OP AMP
Q555
Q553(Q554)
M
SENS+
PASS+
VH+
+HOUT
D651
+B
SGND
IN2-
VO2
IN3-
VO3
PASS-
-HOUT
D652
-B
FILTER
D667
D668
VDLIM
VH-
SENS-
GND
DISP
RLY
DC
IHDET
AC
OVER DET
IC651
RSN310R36A-P
HIC
IC1231
C0ABBB000127
OP AMP
(INPUT SELECTOR) VR901
(VOLUME) VR902
TC9482_CLK
TC9482_DT
TC9482_ST
THERMOVLD2
SEL_ENCD_1
SEL_ENCD_2
VOL_ENCD_1
VOL_ENCD_2
IC901
C2BBGF000334
MICROCOMPUTER
RESET
HOLD
XIN
XOUT
Q901
Q902
D904
CF901


IC601
RSN310R36A-P
HIC
PASS+
SENS+
VH+
+HOUT
D601
+B
SGND
IN2-
VO2
IN3-
VO3
PASS-
-HOUT
D602
-B
VDLIM
VH-
SENS-
GND
DISP
RLY
IHDET
DC
AC
OVER DET
D605
FILTER
Q652
RELAY CONTROL
Q651
RELAY CONTROL
FRO
AMUTE
CEN
SURR
SP_B
S/C_SP
SW
DET
KEY
D617
Q604
VOLTAGE SWITCH
KEY SWITCH
LIMITTER
THERM/OVLD1
KEY1
KEY2
AF_MUTE
SP_B
S/C_SP
M
IC901
C2BBGF000334
MICROCOMPUTER
SEG 19
SEG 1
DEG 1
DEG 10
60~78
79~88
FL DISPLAY
FL901
FROM POWER TRANSFORMER



SIGNAL LINES

: MAIN SIGNAL LINE

: PLAYBACK SIGNAL LINE

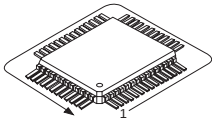
: FM & AM SIGNALS LINE

: CD SIGNAL LINE

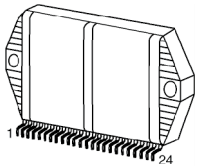
: RECORDING SIGNAL LINE

( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL

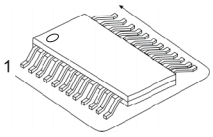
C2BBGF000334 (100P)
C2HBZZ000008 (44P)
C0FBZJ000004 (44P)



RSN310R36A-P



TC9482F (28P)
C0JBAS000175 (30P)
NJM2060MTE1 (14P)
C1AA00000647 (14P)
NJM2279MTE1 (14P)



C0ABBB000102
C0AABB000086
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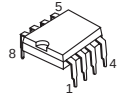

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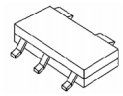
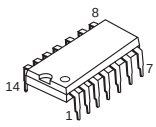
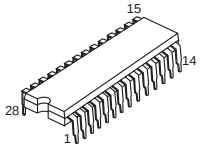


C1AA00000123



TC9163AN



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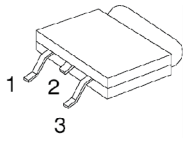
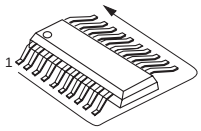


SN74LV244APW (20P)
SN7AHCT244PW (20P)
SN74HCU04APW (14P)



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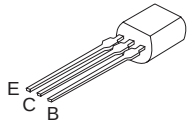

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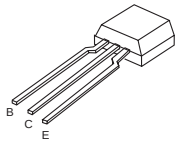
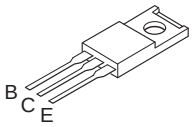


KTC2026



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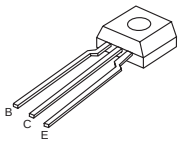

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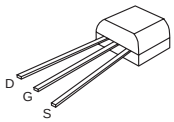

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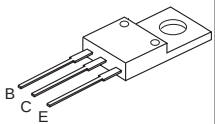

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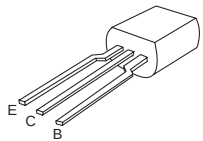
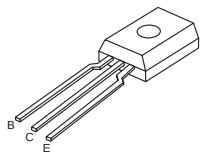


KTD863



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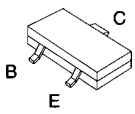

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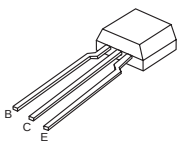

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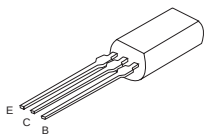

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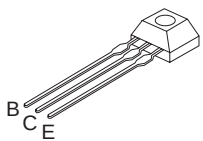

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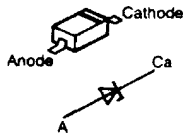

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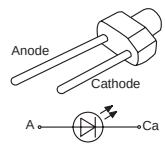

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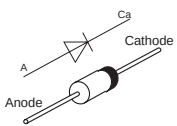

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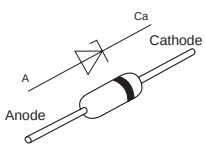
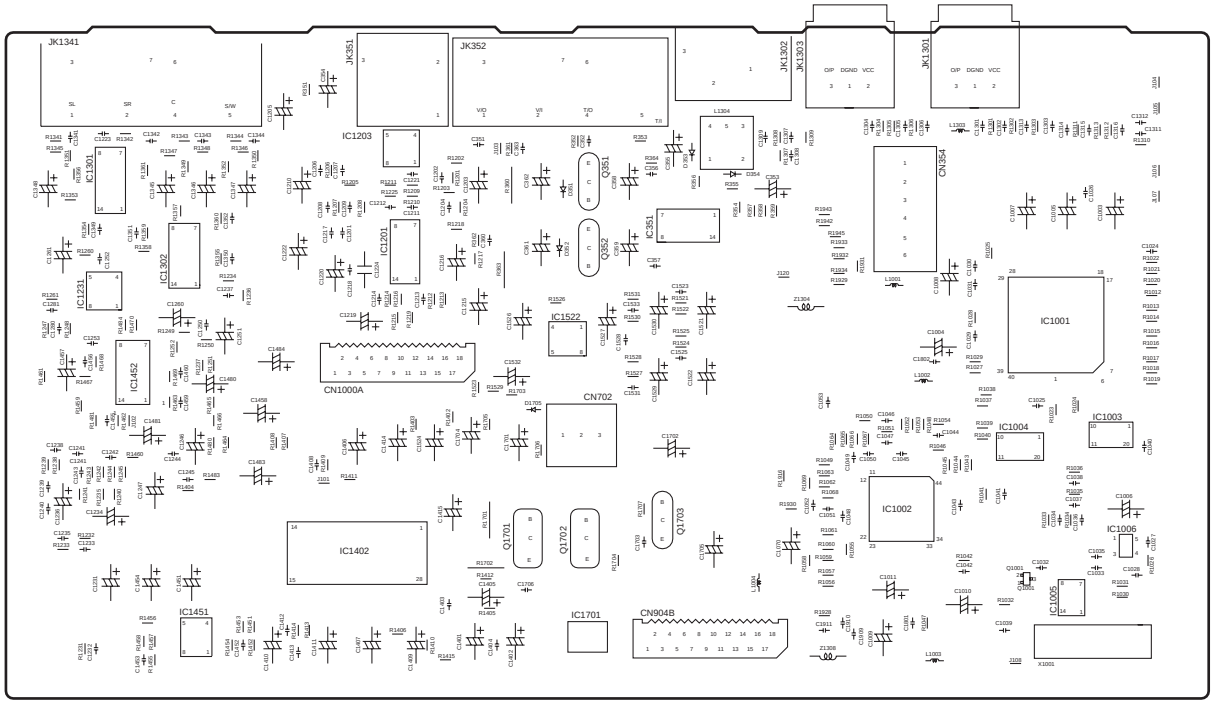
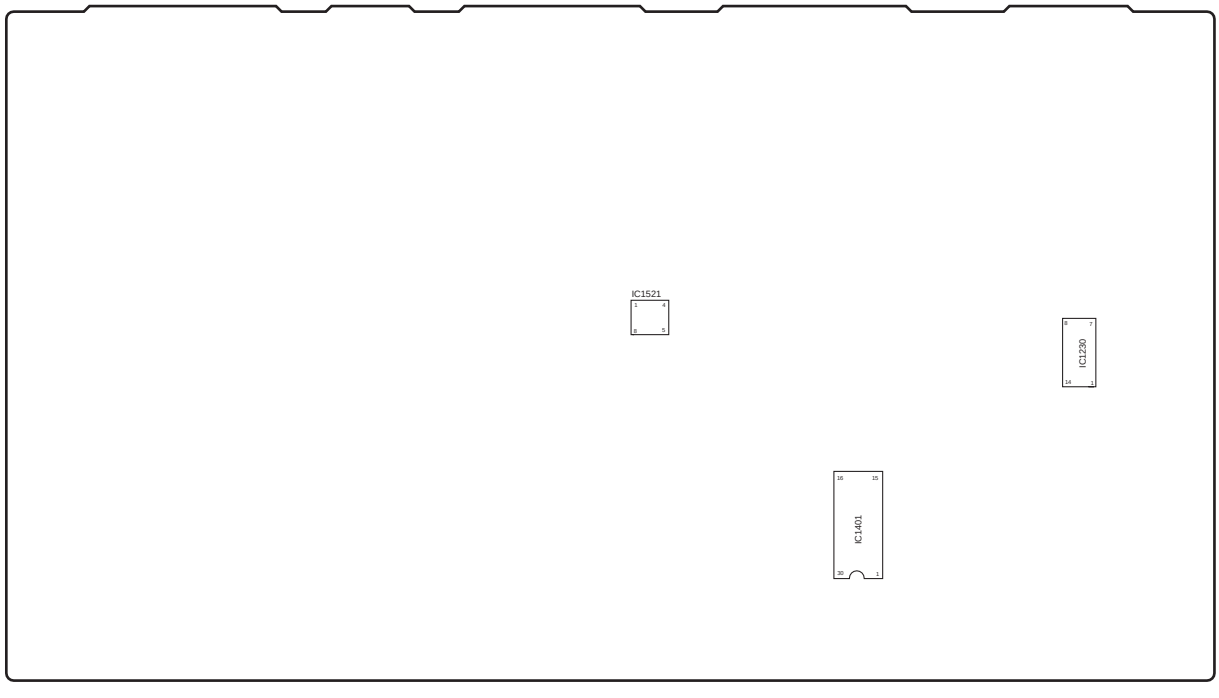


A DIGITAL P.C.B (REP3350A-T) (SIDE:A)



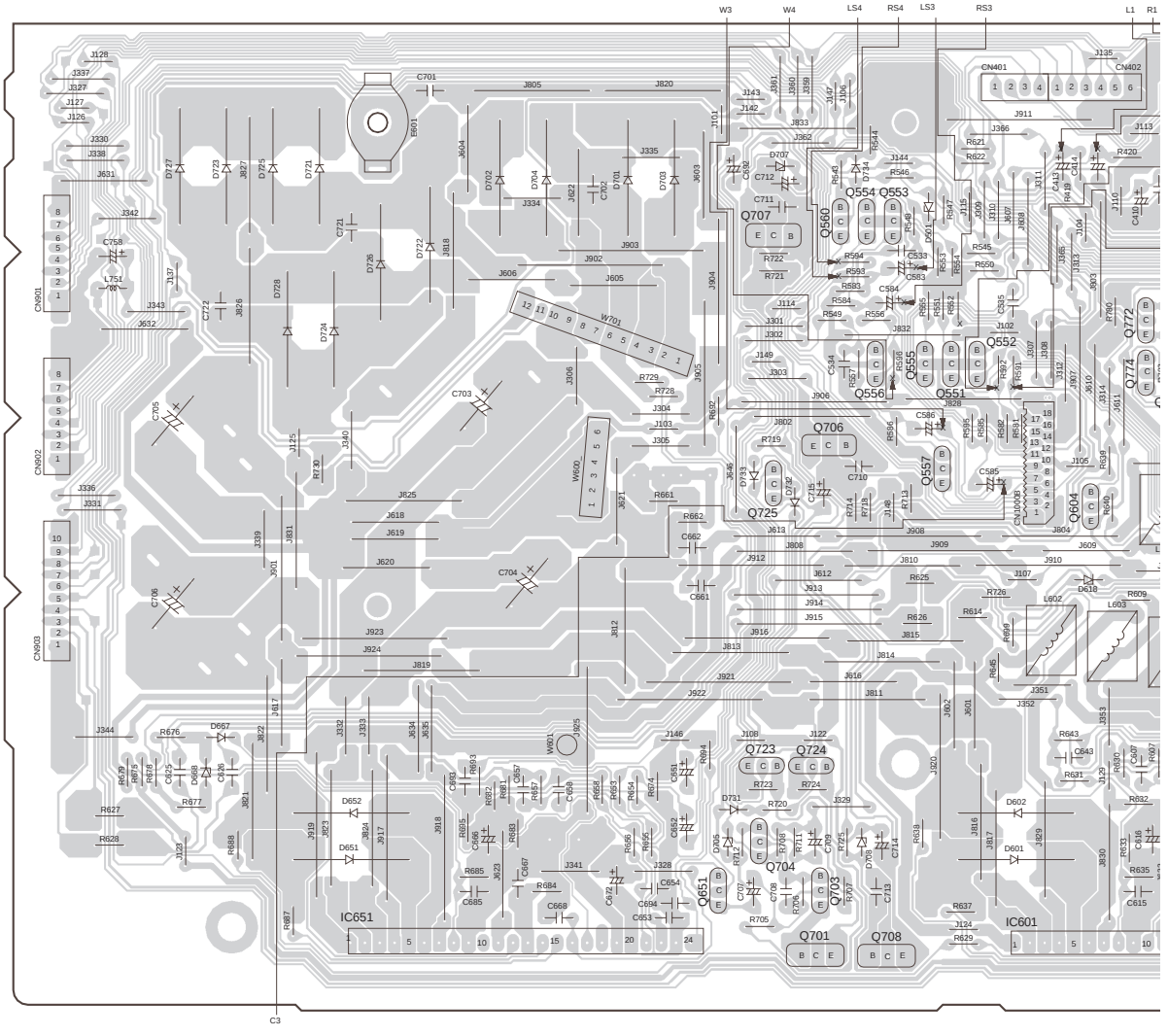
A DIGITAL P.C.B (REP3350A-T) (SIDE:B)

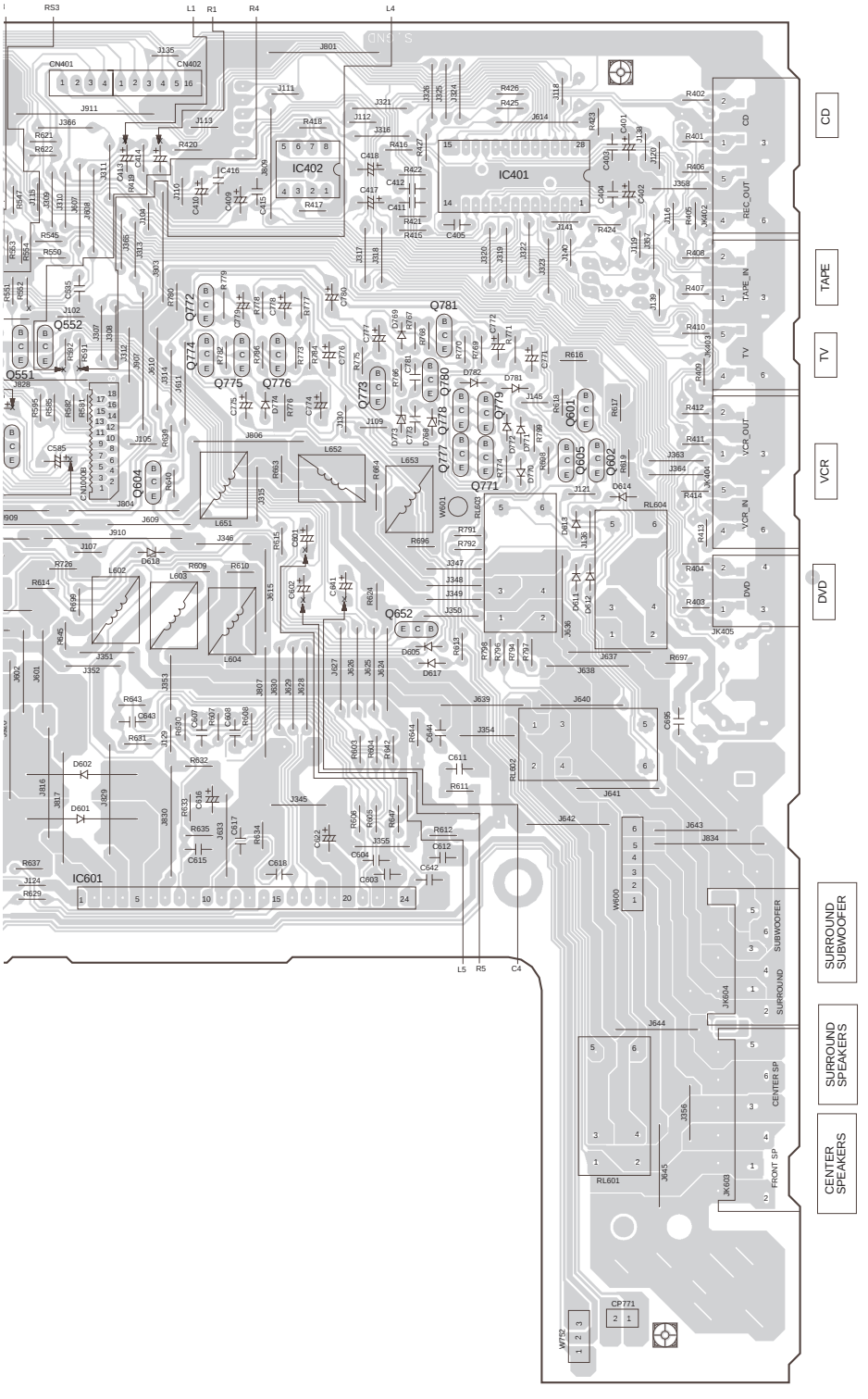


A B C D E F G

1 2 3 4 5 6 7 8 9

B MAIN P.C.B (REP3349A-M...P)
(REP3349B-M...PC)




G
H
I
J
K
L
M
CD
TAPE
TV
VCR
DVD
SURROUND SUBWOOFER
SURROUND SPEAKERS
CENTER SPEAKERS
IC401
IC402
IC601
Q652
Q771
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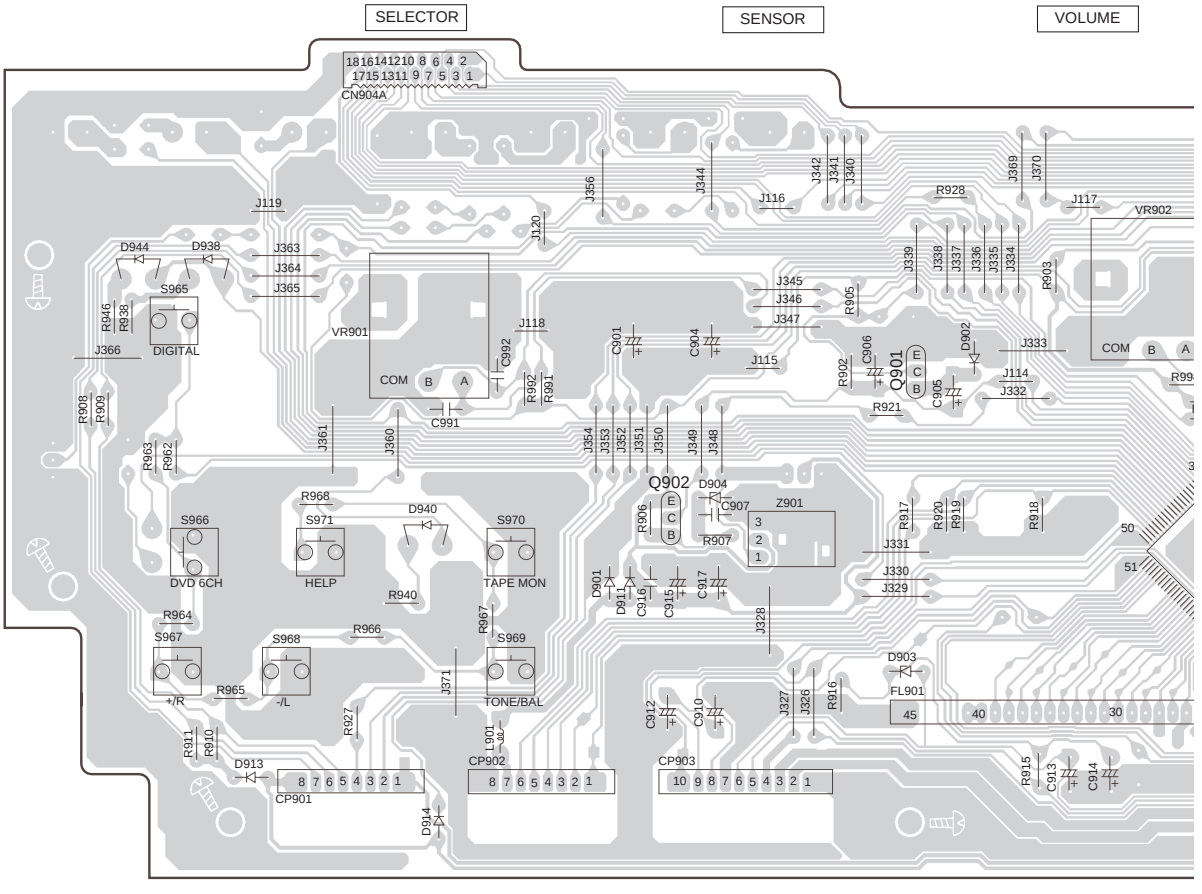
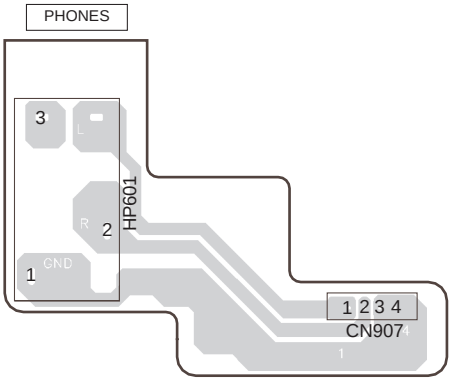
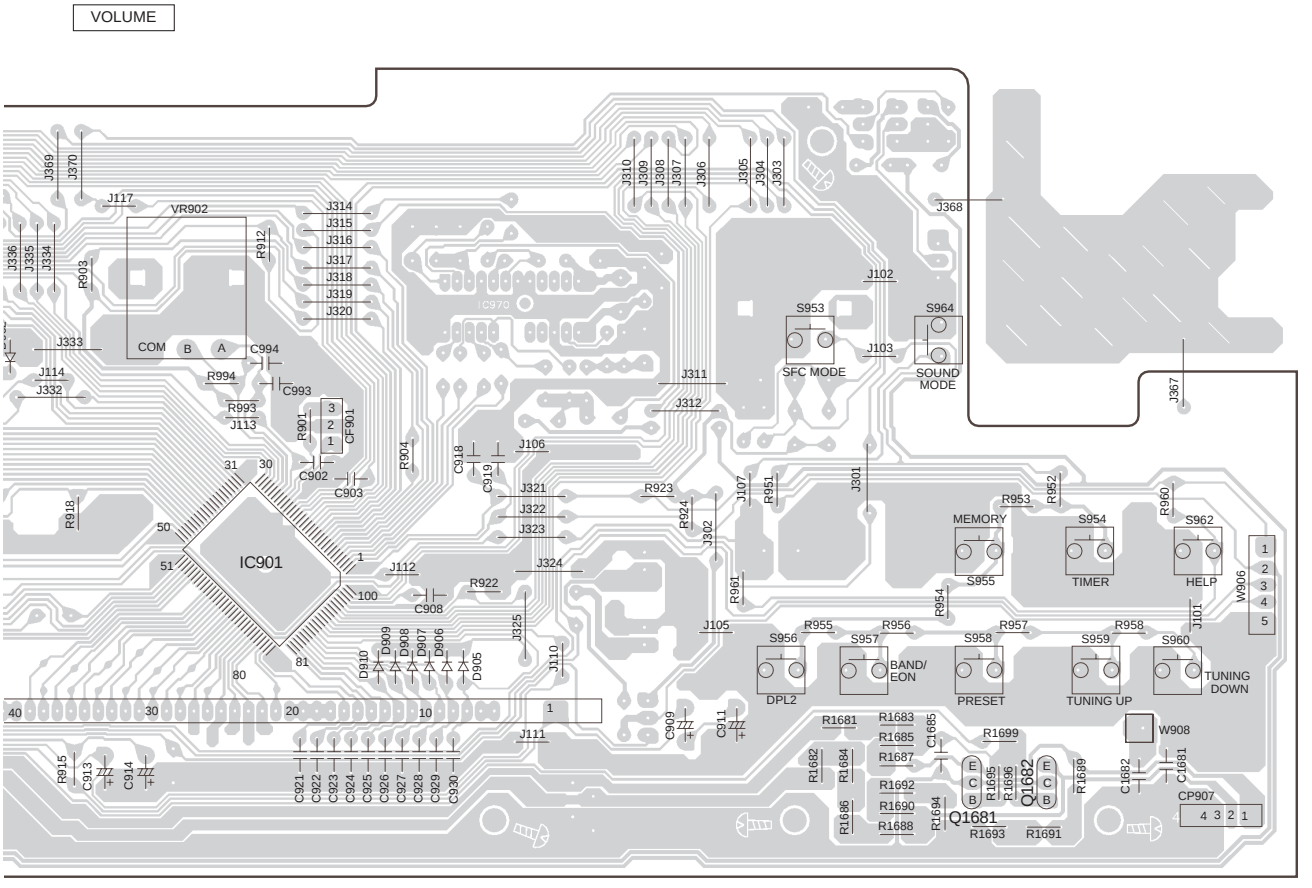
W732
RL601
RL602
RL604
CN401
CN402
CN1008
CP771
JK602
JK603
JK604
JK405
REC_OUT
TAPE_IN
VCR_OUT
VCR_IN
SUBWOOFER
SURROUND
CENTER SP
FRONT SP

C PANEL P.C.B (REP3351A-S)

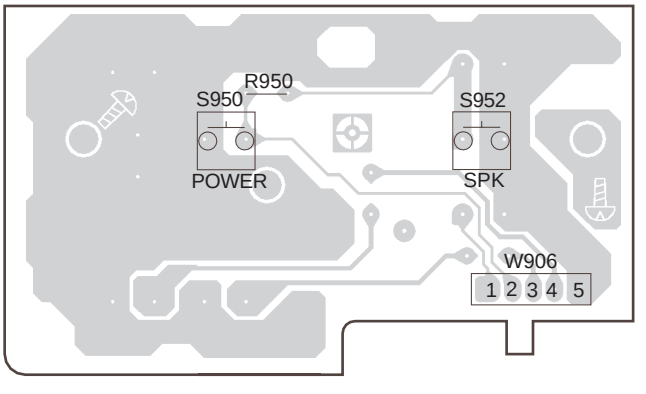


D HEADPHONE P.C.B. (REP3351A-S)

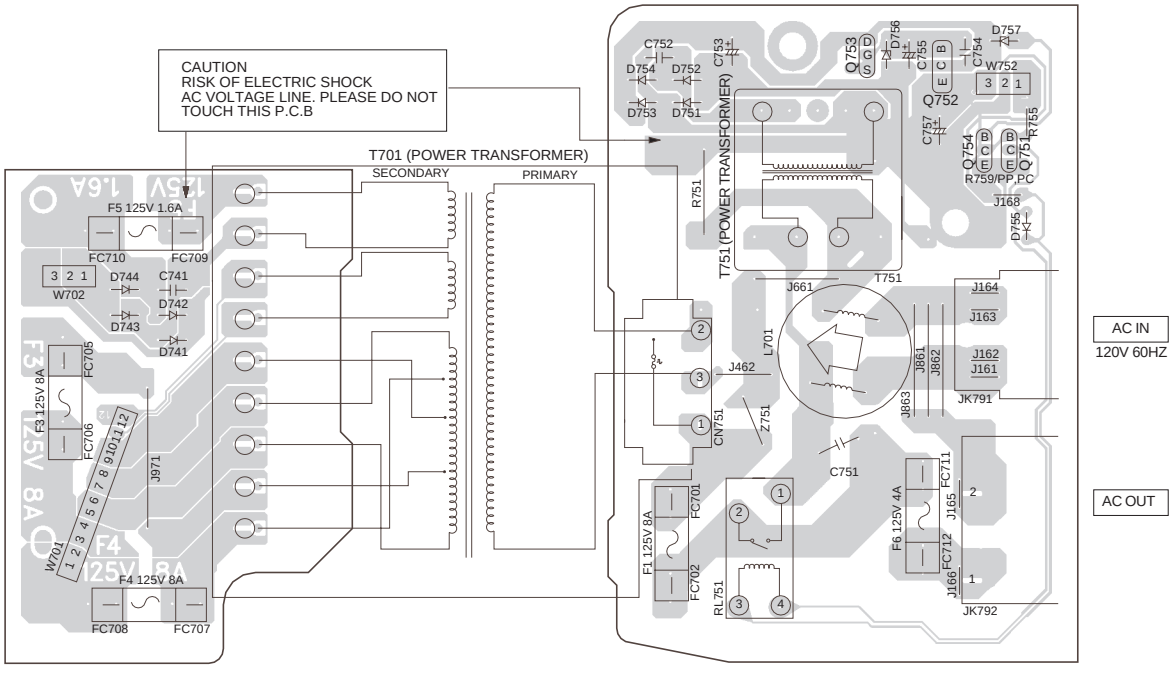




F SWITCH P.C.B. (REP3351A-S)



H SUB-TRANSFORMER P.C.B
(REP3349A-M...P)
(REP3349B-M...PC)



G TRANSFORMER P.C.B
(REP3349A-M...P)
(REP3349B-M...PC)